

ENIGMA 2000 NEWSLETTER



<http://www.enigma2000.org.uk>



Specialist Mugs



Crimea [is] Ours!



National Security Agency

Two different mugs to which the frequency of 10245kHz might have some bearing.

[Thanks to those members for sharing the images with whom the copyright remains]

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Editorial

Short wave propagation continues to be variable; the regular schedules of the number stations being a good indication of this when observed over the weeks. With the increasing hours of daylight as we move through spring towards summer we have seen the expected seasonal changes of frequency with many of the schedules.

The Sunday + Wednesday E07 schedule has been sending some long messages in April, group counts of 153, 178 and 250 have been heard; this schedule also sent several messages with unusually high group counts in April of last year.

‘Operational’ News:

Polytone change and added, new Polytone

Some years ago the XPA trials were heard by RNGB who, in concert with PLdn and CVB made the analysis of that polytone series. Expected schedules, usually on a 20 minute repetition, were marked 'a' to 'f' which sufficed to allow identification amongst the different sendings.

Another XPA was then heard, the intro pulse train inverted, no ident or message number and the tones separated by 15Hz rather than the 40Hz periously seen on the original XPA.

This 15Hz spaced XPA was designated XPA2 and a number of schedules have appeared usually spaced by 20mins, but sometimes spaced with 10mins. These 10m schedules when heard, sometimes across an hour, are short-lived and to be a diplomatic ‘newsround.’

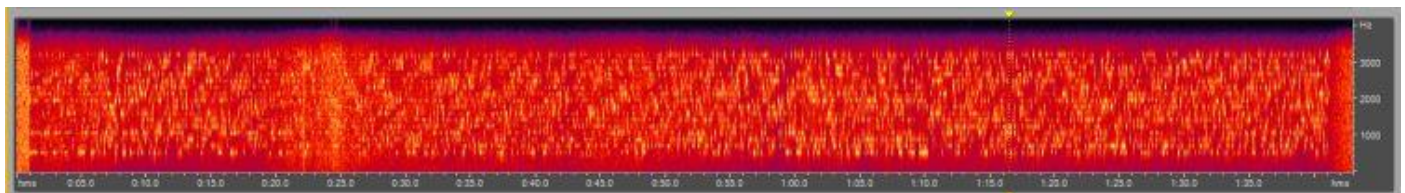
With the arrival of the XPB series there is the possibility as has been raised by Priyom members, of further evolution. That even, in the same series means the next would be XPB2. To keep some order the ‘new’ Russian Intel Multitone System will be conveniently designated XPB1.

In keeping with this change/addition the old XPA will now be designated XPA1.

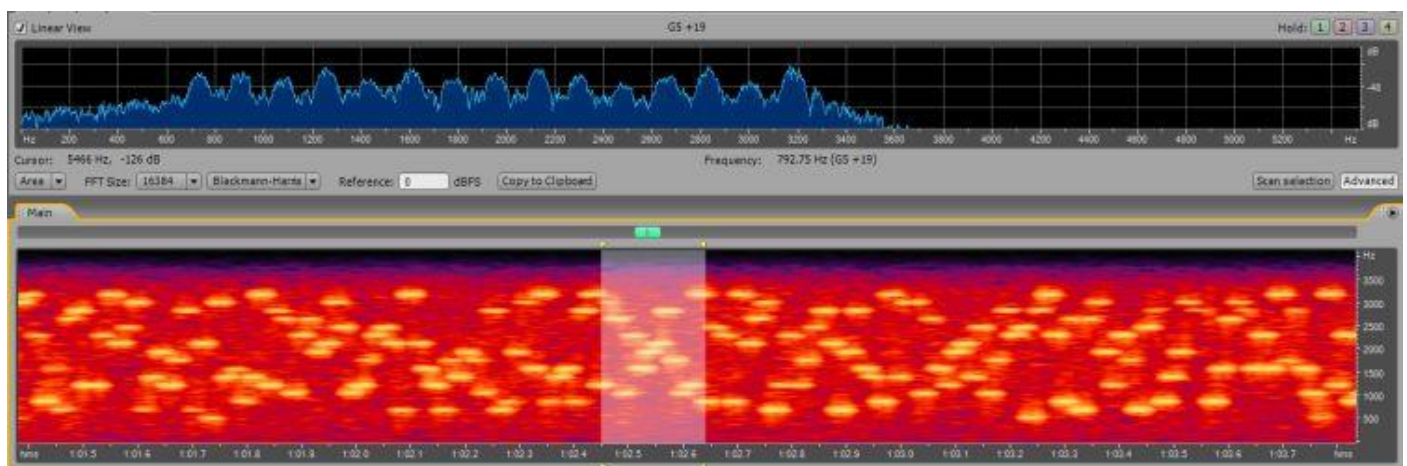
Please add to your Active Station Lists. *[Thanks to Priyom for their input]*

XPB Series

XPB1 [Russian Intel Multitone System MFSK-16]



Full transmission, 8147kHz 1950z 16/04/2019



2.5s sample from above transmission, illustrating complexity of tones

Tones spaced by 175 Hz, ranging from 540 Hz to 3165 Hz.

Four possible symbol rates: 16 Bd, 33 Bd, 66 Bd or 132 Bd (approximate).

No outstanding intro or outro sequence, but the first minute of transmissions is always the same random-looking, Linear-Feedback Shift Register [LFSR] generated tone sequence.

Unlike other stations in the family, transmissions are not 3 repeats spaced by 20 minutes, but can be for example 6 repeats spaced by 10 minutes.

First noted circa 2014, first stable schedule noted in 2018.

The part schedule can be found: <http://priyom.org/number-stations/digital/xpb/schedule>

Thanks to Priyom for the notification and analysis of the transmission in this new series.

Solar Thoughts

By Malc [M8]

I have been interested in both radio and the weather for as long as I can remember. I recall the two very hot summers of 1975/76 and also the coldest winter of 1962/63.

The sun plays an important part in the way both the climate and the way we live on the Earth.

The sun goes through an 11 year cycle of sunspot activity, at present we are entering the minimum of Cycle 24. Cycle 25 is expected to start between July 2019 and September 2020 and a new solar peak 2023-2026. This minimum is likely to be the deepest and longest, reaching a century low point sometime this year.

Not very good news for the radio enthusiast but may explain why the E11 55 has moved from a high to a lower frequency recently.

It is also coincident with unusual weather happening across the world. Some say that it is manmade global warming, however it could be to do with more heat aiming at the earth during this solar minimum when the earth is buffeted regularly by solar winds some of the strongest seen to date.

An interesting article on these topics and can be found in the archive of spaceweather.com for the 16th April 2019:
<http://spaceweather.com/archive.php?view=1&day=16&month=04&year=2019>

Thanks Malc

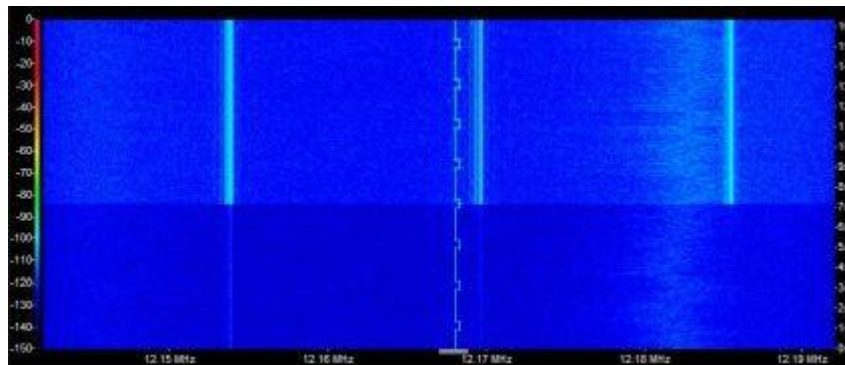
NOISE!

Once again, more mention of noise from members and colleagues elsewhere in a demonstration station. It's a pretty poor show when big business is allowed to pollute the spectrum as it wishes by distributing cheap made rubbish designed to propagate RF, cause as much interference it wants and with no policing from the very agencies set up to issue and enforce standards on all equipment.

Local interference is always there, TV satellite boxes, TV stuff advertised by some Jamaican bloke in a stupid suit, PLT, ADSL, Solar panels, Plasma display equipment, the bloke next door's cheapo power unit, Central Heating Boilers and so on. All noise making crap by all accounts. Even those designated to deliberately produce RF down a copper conductor but which are not transmitters, are not producing interference.

I properly load my transmitter into a matched antenna, with a bandpass filter preceding it which causes interference on a nearby neighbour's cheaply made stereo music box, or whatever these things are called today, and it's a threatened OFCOM visit [but not before he had a visit from Environmental Health to issue him with a noise abatement notice] and now his legal status as a resident in the UK is being looked into by UK Border Force as is his use of 'Weed' in the street.

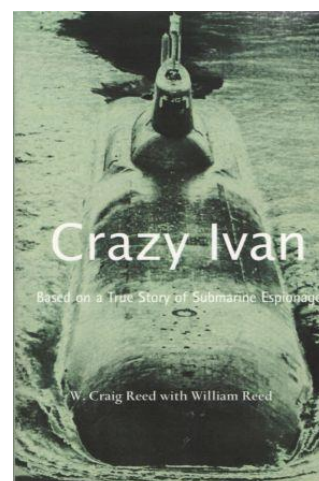
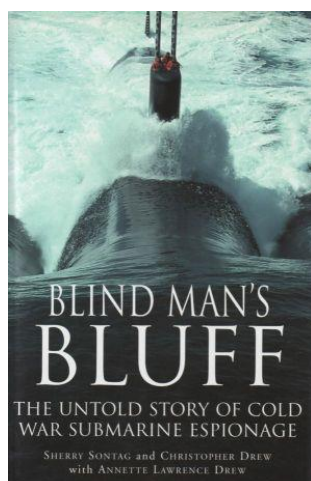
Doesn't stop the noise. Here's one example where my Phase noise removal unit just copes:



You can see the exact moment the noise removal unit was switched in, taking out the main noise maker [believed to be from voltage accelerator in CH unit] but note the QRM to the right, untouched – and that is difficult, although not impossible, to attenuate.

Malc's observations about the start of Cycle 25 are very relevant here; as signal strength from stations diminish, noise rises; sadly the noise we generally suffer is man made, controllable and basically ignored by those in the pay of HMG [of the day] to do something about it.

Recommended Reading



Two books both with a naval flavour and both involving submarine intelligence gathering.

Blind Man's Bluff examines in detail the activities of allied submarines during the Cold War [and relevant today]. Lots of research and some excellent coverage of IVY BELLS and SOSUS too.

Crazy Ivan is almost, but not quite, a companion volume to Blind Man's Bluff. It is simply the story of a US Navy Diver who found himself assigned to submarines.

Like the first book there's excellent 'in-depth' information on the IVY BELLS and some extra-operational incursions into a Soviet harbour. W.Craig Reed tells a good story along with his son who joined USN and was commissioned from the ranks.

The NSA's Project BORESIGHT also gets a decent description of the techniques used to discover and eventually read a heavily compressed signal sent as a burst transmission..

Recommended reads, both.

Morse Stations

All frequencies listed in kHz. Freqs are generally +/- 1k

This is a representative sample of the logs received, giving an indication of station behaviour and the range of times/freqs heard. These need to be read in conjunction with any other articles/charts/comments appended to this issue.

Notes & Observations on M01a

(Part 1)

History of M01 Group Stations

The M01 set of Morse stations have been active for a very long time & pre-date the original ENIGMA group that came into existence in 1993, & who were responsible for the classification of Number Stations we still use today.

The M01 group consists of M01, M01a & M01b. M01 & M01b use a very similar format & both have fixed schedules that have been in use since the inception of the ENIGMA group. There are however some differences between these two stations & these can be compared using the Active Stations List, available on the ENIGMA 2000 website. The stations are believed to be operated by the Russian Navy.

M01 Has a long-standing, rigid schedule of messages sent at 1800z & 2000z on Mondays / Thursdays, 1500z on Saturday & 0700z on Sundays. Frequencies & calls change every few months on a rotating schedule that repeats yearly.

M01b As with M01, has long-standing schedules on Mondays, Thursdays & Fridays. Also has a rotating schedule of frequency & call changes.

If we look at M01a, the subject of this article, we can see that it is very much the odd one out in that there are a number of different formats in use and, with the exception of the message formats, they all appear to be very different from those used by M01 or M01b. M01a uses both machine & hand-sent Morse.

Originally, ENIGMA had four sub-categories listed under the M01 definition - M01a, b, c & d. These definitions of the various sub-categories are taken from ENIGMA's Morse Station Profiles document - January 2005 Update.

M01A End of Month transmissions, the last Thursday and Saturday of each Month.

These transmissions are an entirely different format to the normal M01 but they can vary each time. Suggest listening to them to hear the format.

Some of these have been logged at times other than the EOM and at the same time as M01 was transmitting. Sending was not the usual high quality of M01. (Possible operator practice sessions?)

These transmissions ceased to be at the end of the month from April 2002.

They have been heard but not at a regular time, day, or frequency. It is a matter of luck to find them.

M01B Hand sent. These are sent to individual IDs and the frequencies

M01C A common format of these is listed. Several other formats exist. If a message is sent it is nearly always 10 groups.

385 385 385 84297 84297 Repeated 8 times

30 Second pause

385 385 385 86652 86652 Repeated 8 times

Can be any number of these, usually machine sent, ending is hand sent.

385 385 385 000

These can be on at any time and do not use the normal M01 frequencies so are very difficult to find.

Logged on 14 July 1999 on 9143. A long transmission from 1045 to 1133, with 2 messages of 30 and 33 groups.

M01D A new variation heard on 29 September 1999 on 5730 at 0700

Also on 30 September 1999 on 5730 at 0600 0700 and 0800

Similar to M01C but all Auto sent

Call up was 331

Last group of message was random

Here is an example of the end of month transmissions. Between each line of the message there is a pause of anything from 5 to 170 Seconds. It appears that it is waiting for a reply from outstations in these pauses. None of these replies have ever been logged. The message, although there is not always one sent is unusual, in that the groups are only sent once. The call up usually uses the ID in use but has been known to start 333.

463 463 463 50481 50481 (This can be repeated up to 6 times)

111 51962 51962 (This can be repeated up to 6 times)

333 51028 51028

020 18 23

111 999

558 37 = 37x5f = 558 37

111 51179 53065 (Repeat of groups 15 and 25)

111 000

As can be seen from the above, the M01a definition referred specifically to regular scheduled transmissions that were heard on the last Thursday & Saturday of each month, but as we can also see, from April 2002 these regular transmissions ceased were said to be appearing more or less randomly, with time, day & frequency all variable.

This ending of the M01a scheduled transmissions combined with what also appeared to be similarly random transmissions from M01c & M01d presented a problem. With incoming reports, while it was easy enough to identify the M01 & M01b transmissions, the remaining logs proved to be difficult, if not impossible to fit with certainty into any one of the sub-categories. When comparing the contents of logs against the definitions it became clear that there was a good deal of overlap & that elements from several of the sub-definitions could be found in many of the logs.

With the cessation of the regular end of month transmissions there was no way of determining whether a report was an M01a transmission or one of the other sub-categories. Added to this was the fact that most reports were only partial logs, having been found in progress by monitors because of the random nature of the transmissions.

After some discussion, it was decided to revise the M01 group definitions. M01 & M01b would remain unchanged, but all other variants would in future be covered by the M01a sub-category. This was implemented in February 2016.

M01a - Content

As already stated M01a has very different content from that received from M01 or M01b & can present itself in a number of different formats. Here are a few examples that have been logged by members of the ENIGMA 2000 Group over the last two years;

9129	0542z	01 Mar	498 (x3) 524 82 (x2)			
3973	0632z		111 999 536 10 = 27873 29074 6 111 333 = 536 10 = 27873 29074 68842 56552 61299 32722 51821 96958 36067 27356 57356 = 536 10 111 000			
3352	1842z		342 (x3) 428 83 (2)			
4923	1253z	02 Mar	849 (x3) 840 03 (x2) 849 (x3) 786 73 (x2)			
3774	1911z		697 (x3) 483 59 (x2) 333 483 51 333 040 04 697 333 36 111 000			
3369	1708 - 1726z	28 Mar	156 (x3) 111 16 (x2) 156 (x3) 110 72 (x2) 156 (x3) 115 98 (x2) 050 156 (x3) 111 040 01 156 (x3) 333 114 07 (x2) 333 111 71 (x2) 111 000			
3187	1740 - 1744z		425 (x3) 644 40 (x2) 333 04 333 07 111 000	F5JBR		TUE
4729	0615z	28 Mar	893 (x3) 78504 (x2) 893 (x3) 78504 (x2) 333 78574 78574 333 78574 333 77778 77778 333 77778 77778 111 999 443 35 = 13266 26742 98373 46770 82605 95369 03039 27425 38589 32325 73694 94767 38756 49863 51636 72546 02233 24174 84618 18248 36639 01349 22441 34885 05203 17808 48660 12450 72749 37396 95033 10651 05262 33964 43478 = 443 35 000	CW	F5JBR	WED
5182	0906 (IP) - 0912z	11 Jul	781 333 00 111 333 03 111 333 10 111 000 (x4)			
5182	1051 (IP) - 1059z	11 Jul	781 (x3) 3180 1 3180 1 (Rx9) 781 (x3) 31603 31603 7 817 (x3) 81316 033 180 17 817 (x2) 81316 033 160 3 781 (x3) 31603 31603 (Rx2) (Monitored until 1230z. NRH) 111 000			

5347	1415 (IP) - 1426z	13 Jul	134 (x3) 20 160 (x2) 222 12 111 999 011 25 = 36557 96544 04541 12685 57669 45677 34464 97532 34876 04645 (Single grps) 45677 34464 87777 34876 04645 75432 12345 45087 45706 89750 34464 97532 12345 85674 36557 = 011 25 000
5405	0539 - 0534z	15 Jul	111 999 325 50 = 40502 18033 56881 76486 48674 94823 70586 32757 00975 98547 49418 40161 45514 49497 87650 33196 16083 22730 29623 29902 41121 72360 03801 43537 13447 22398 86332 78392 58193 54207 37832 10972 90310 04761 35588 05080 98991 73664 80509 44796 78141 51909 69189 70835 96359 63535 63401 91473 59342 15520 = 325 50 111 000
5209	0742z	28 Mar	260 (x3) 94930 (x2) 260 (x3) 94930 (x2) 260 (x3) 93552 (x2)
4683	1438z	04 Apr	333 07 333 11 333 15 333 19 333 25 111 000 111 000
4603	1442z	04 Apr	333 48928 333 46328 444 333 000 333 000 111 333 030 812
4830	1446z	04 Apr	111 = 80849 111 000
4803	1450z	04 Apr	104 (x3) 900 38 (x2) 111 111 333 999 /673229654324467334480 45580/31005000
2803	0420z	26 Sep	633 (x3) 728 26 (x2) 333 72682 040 01 333 111 020 27 30 111 000
3192	1803z	07 Sep	111 = 75320 81472 07034 111 000
3378	0453z	08 Sep	312 (x3) 111 000
3389	0523z	26 Sep	333 20 111 000
3768	1520z	08 Sep	133 (x3) 906 23 (x2) 111 000
4488	1144z	08 Sep	361 (x3) 361 (x3) 361 (x3) 875 36 (x2)
4517	0713z	26 Sep	378 34 = 64624 92788 50127 201532 45776 09000 17698 60381 84227 46537 46384 92275 28147 76943 73390 83913 38310 15342 54457 26530 39725 03412 19660 55329 03609 58052 42751 34452 18496 91830 18959 10228 43999 23835 = 378 34 111 000
3882	1553z	18 Mar	598 (x3) 79653(x2) 333 46 333 37 333 37 111 000

4905	1214 (IP) - 1216z	19 Mar	M01a Training 94013 24648 04613 54798 74052 49840 13498 65412 36870 46521 = 347 10 0 0 0 Groups, symbol, DK, GC; repeated twice. Sent slowly with bad timing, broken groups and mistakes.
4484	1836z	26 Mar	333 69107 333 69107 111 999 325 43 = 49451 00963 25529 44039 00395 97672 40428 66478 62480 80438 07934 80089 55262 84365 12929 33647 64385 58817 27796 80627 95925 66616 80730 43979 65248 56835 08630 07875 01360 36747 55655 78348 23428 60169 62075 45916 65275 28747 04096 67795 93110 93765 78085 = 325 43 000

As can be seen from these examples, the formats are quite formal. No operator 'chat', acknowledgements or 'Q' codes are used as usually seen on network traffic, & no call-up preamble used. While much remains a mystery, there are a number of clues that can tell us a little about the station.

The association with the M01 group is evident by the use of three zeros at the end of messages or traffic, (using the short zero for both this & in messages). The format of the messages also resemble those of M01 / M01b, but using only single groups & likewise a single Decode Key & Group Count at to both start & end messages.

One characteristic of the traffic are the pauses between each 'section' of text. These can range from a few seconds to a number of minutes. As stated in the above definition of M01d, *'it appears that it is waiting for a reply from outstations in these pauses. None of these replies have ever been logged.'* This is very much the impression formed when listening to M01a for any length of time.

Repeated Groups

Looking through the logs will throw up examples where, having sent a message, the station will next repeat one or two of the groups from that message, seemingly in response to a request from an outstation. In this example below, we can see that groups 04 & 11 are repeated. The station then closes the transmission with 111 000.

5743	1435z	16 Jun	111 999 111 999 120 15 = 56754 34523 87967 75654 54323 98056 12354 78656 89709 12354 78656 54223 87909 78676 23423 = 120 15 111 = 75654 78656 = 111 000
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In this next example only a single group is repeated, in this case group 12;

5043	1219 (IP) - 1317z	18 Jul	281 30 = 28878 85570 12290 52500 42100 49662 60860 29022 40595 62210 98656 39948 92650 52148 78421 64724 59011 89443 64859 85320 93629 41419 63864 48365 64711 63043 14998 44682 14194 56537 = 281 30 000 111 333 39948
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Finally, this example not only repeats part of the message, but also clearly states the group numbers of the repeated section as = 03 09 = before ending the transmission with 000.

5473	1051 (IP) - 1057z	20 Jul	111 999 999 999 303 10 = 95021 33034 77079 18438 39358 83897 02907 39909 43897 95481 = 303 10 000 111 020 = 03 09 = 77079 18438 39358 83897 02907 39909 43897 000
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Call signs

The M01d definition also states that *'The call up usually uses the ID in use but has been known to start 333'*. Here are some logs where the three-figure call signs are used showing examples of the different number sequences that are used. As you will see, one of the examples features a full message. Again, these are taken from logs submitted to ENIGMA 2000 over the last two years.

It is difficult to be sure of the function of these various sequences. As we have seen from the section above, there are situations where individual groups from a message are resent, so this is a possibility. It could also be that these five-figure groups represent a coded group in their own right or have some entirely different use. We simply don't have sufficient information to determine their purpose.

7692	0539 - 0549z	13 Mar	958 (x3) 47436 (x3) Rpt 5 min. 958 (x3) 49337 (x3) Rpt 5 min.
9421	0620 - 0629z	13 Mar	135 (x3) 60479 (x3) Rpt 5 min
5182	1051 (IP) - 1059z	11 Jul	781 (x3) 3180 1 3180 1 (Rx9) 781 (x3) 31603 31603 7 817 (x3) 81316 033 180 17 817 (x2) 81316 033 160 3 781 (x3) 31603 31603 (Rx2) (Monitored until 1230z. NRH)

5080	0916 (IP) - 0925z	12 Jul	942 (x3) 629 40 (x2)
			942 (x3) 620 50 (x2) (Rx3)
			942 (x2) 5
			123456789
			111 000
5347	1415 (IP) - 1426z	13 Jul	134 (x3) 20 160 (x2)
			222 12
			111 999
			011 25 = 36557 96544 04541 12685 57669 45677 34464 97532 34876 04645 (Single grps)
			45677 34464 87777 34876 04645 75432 12345 45087 45706 89750
			34464 97532 12345 85674 36557 = 011 25 000

Triplet Codes

One very prominent feature of M01a output is the liberal use of three-figure codes throughout the transmission. While it is not possible to determine the meaning of the various codes, where & when they are used could suggest some possible meaning to one or two of the codes.

From observation the codes logged are;

111	111 000	111 333	111 999
222			
333	333 000		
444			
999			

111 can be either a stand-alone code or followed by traffic. E.G. 111 39906 31906 (Repeated several time)

111 333 can also be either as stand-alone sequence or with traffic. E.G. 111 333 39948 - Also frequently associated with two-figure codes. E.G. 333 20

111 999 is always seen as a stand-alone code.

333 is sent either as a stand-alone code or followed by traffic. E.G. 333 48928. It is also frequently followed by two-figure codes. E.G. 333 09 333 01 02

444 is always seen as a stand-alone code.

999 is always seen as a stand -alone code.

111 000 is the sequence used only at the end of a transmission. Although there have been instances of this being omitted, it is usually the sign-off of the station.

This article has been compiled from information & logs gathered by the ENIGMA 2000 Morse Team. Thanks to those involved & particularly to Edd Smith for the huge effort he has put into monitoring, transcribing & analysing M01a.

In Part 2 - We will look at recently compiled schedules of M01a transmissions, some intriguing data bursts & some associated FSK transmissions.

Morse - Number Stations Logs

M01/2 XIV MCW, hand (463 sched for Mar- Apr). Will change to M01/3 sched ID 025 for May - Aug.

Variant formats continue to be used on an irregular but frequent basis. Four variant formats have been identified.

Standard Format:	197 (R4m) 117 117 30 30 == 93447 20478 == 117 117 30 30 000	(Still the most commonly used format)
Variant Format 1:	197 (R4m) 147/30 147/30 78902 ... 86083 147/30 000	(Not used for some time now)
Variant Format 2:	197 (R4m) 521=30 == 521=30 == 46547 ... 88305 = 521=30 == 521=30 0=0=0	(Not used for some time now)
Variant Format 3:	463 (R4m) 127 30 == == 84820 ... LG 82607 == == 127 127 30 30 000	(Used numerous times in March/April)
Variant Format 4:	197 (R4m) 589 589 = 30 30 == 40728 58918 == 589 589 = 30 30 000	(Used numerous times in March/April)

March 2019:

5020	2000z	05 Mar	'463' 934 30 == == 90092 ... 77614 == == Fair, fast. Erratic spacing	Format 3	CB/HFD	TUE
	2000z	07 Mar	'463' 103 = 30 == 11876 ... 65586 == Strong, fast. No errors	Format 4	CB	THU
	2000z	12 Mar	'463' 901 30 == 69200 ... 88567 == Strong, rapid faultless delivery. No errors		CB	TUE
	2000z	14 Mar	'463' 777 30 == 78741 ... 11888 == Strong, fast. Several errors noted.		CB	THU
	2000z	19 Mar	'463' 109 = 30 == ... 96 ... 94019 == Fair, med-fast. Numerous errors	Format 4	BR	TUE
	2000z	21 Mar	'463' 121 30 == 20609 ... 34200 == Strong, fast. Good delivery. Long pause before msg.		CB	THU
	2000z	26 Mar	'463' 127 = 30 == 08070 ... 49650 == Good, med-fast. Errors noted.	Format 4	BR	TUE
	2000z	28 Mar	'463' 901 30 == 45994 ... 85178 == Strong, rapid. Error grp10		CB	THU

5475	1759z	05 Mar	'463' 921 30 = = = = 96184 ... 37863 = = = = Fair, fast. Difficult copy	Format 3	BR/CB/HFD	TUE
	1800z	07 Mar	'463' 301 = 30 = = 53030 ... 95187 = = Strong, Perfect delivery. No errors	Format 4	CB/Gert	THU
	1800z	12 Mar	'463' 310 30 = = 25428 ... 10424 = = Strong, rapid, faultless delivery. No errors		CB	TUE
	1800z	14 Mar	'463' 301 = = 12864 ... 24399 = = Fair, steady. No noted errors		CB	THU
	1801z	19 Mar	'463' 307 = 30 = = 81475 ... 79212 = = Strong, rapid. Several errors noted	Format 4	CB	TUE
	1800z	21 Mar	'463' 112 30 = = 37354 ... 78284 = = Strong, fast. Perfect except for error in grp30		CB	THU
	1800z	26 Mar	'463' 117 = 30 = = 55176 ... 00411 = = Strong, med-fast. Grp26 sent once.	Format 4	BR	TUE
	1800z	28 Mar	'463' 887 30 = = 36317 ... 59745 = = Strong, fast. No errors		AB/CB	THU
6260	1459z	02 Mar	'463' 331 30 = = 08529 ... 65052 = 331 30 0 0 0	(Via SDR Enschede)	E.SMITH	SAT
	1500z	09 Mar	'463' 523 30 30 = = = = 34774 ... 94680 = = = =	Format 3	AB/CB/E.SMITH/HFD	SAT
	1500z	16 Mar	'463' 455 30 = = 71760 ... 43538 = = Good, med-fast, irregular delivery. Error grp01		BR	SAT
	1500z	30 Mar	'463' 317 30 = = 77418 ... 48690 = = Good, fast. Several errors noted		BR	SAT
6510	0659z	03 Mar	'463' 392 30 = = 34242 26651 ... 89650 41819 = 392 30 0 0 0	(Via SRD Enschede)	E.SMITH	SUN
	0700z	10 Mar	'463' 515 30 = = 60249 90226 ... 75660 71981 = 515 30 0 0	(Via SRD Enschede)	E.SMITH/HFD	SUN
	0700z	17 Mar	'463' 905 30 = = = = 71595 20935 = = = = 905 30 000	Format 3	E.SMITH	SUN
	0700z	24 Mar	'463' 127 30 = = 79485 ... 69999 = = Strong, fast. Perfect except for error in grp30		BR	SUN
	0700z	31 Mar	'463' 321 = 30 = = 26627 ... 42161 = = Fair, med-fast, irregular. Errors noted	Format 4	BR	SUN

April 2019:

5020	2000z	02 Apr	'463' 597 30 = = = = 19574 ... 66579 = = = = Strong, fast. Error grp11	Format 3	CB	TUE
	2000z	04 Apr	'463' 117 = 30 = = 54251 ... 65711 = = Fair, slow. Jumble grp29	Format 4	CB	THU
	2000z	09 Apr	'463' 603 30 = = 61709 ... 40321 = = Fair, fast. Some hesitation. No errors noted		BR/CB	TUE
	2000z	11 Apr	'463' 778 30 = = 41469 ... 32554 = = Strong, fast. Errors in grps 27/28 & 30		CB	THU
	2000z	16 Apr	'463' 119 = 30 87540 ... 89428 1 = = Strong, steady. Start = missing	Format 4	CB	TUE
	2000z	18 Apr	'463' 311 30 13624 ... 41908 = = = = Strong, fast. Several errors noted	Format 3	CB	THU
	2000z	23 Apr	'463' 721 30 = = 30321 ... 94301 = = Fair, fast. Several errors noted inc. extra figures added		CB	TUE
	2000z	25 Apr	'463' 905 30 = = 07376 ... 51576 = = Fair, fast. Several errors noted inc. extra figures added		CB	THU
5475	1800z	02 Apr	'463' 521 30 = = = = 39262 ... 44626 = = = = Good, fast. Several errors	Format 3	CB	TUE
	1800z	04 Apr	'463' 121 = 30 = = 03570 ... 34225 = = Fair, slow. Error grp30	Format 4	BR/CB	THU
	1800z	09 Apr	'463' 509 30 = = 65152 ... 92573 = = Fair, fast. Some hesitation. No errors noted		BR/CB	TUE
	1800z	11 Apr	'463' 521 30 = = 26234 ... 57183 = = Good, fast. Errors in grps 06 & 21		BR/CB	THU
	1759z	16 Apr	'463' 127 = 30 = = 64276 ... 00553 = = Strong, steady. Repeated grp16-17	Format 4	CB	TUE
	1800z	18 Apr	'463' 328 30 = = = = 09818 ... 39290 = = = = Fair, steady. One error noted.	Format 3	CB	THU
	1800z	23 Apr	'463' 771 30 = = 11344 ... 36526 = = Fair, fast. Numerous errors, inc. extra figures added		CB	TUE
	1800z	25 Apr	'463' 441 30 = = 54592 ... 51857 = = Fair/Good, fast. Two single figure repeat errors		BR/CB	THU
6260	1500z	06 Apr	'463' 738 30 = = = = 40627 ... 71812 = = = = Fair, fast. Error grp17	Format 3	BR/CB	SAT
	1500z	13 Apr	'463' 375 30 = = 13794 ... 65145 = = Good, fast. Some hesitation in a couple of grps. No errors		BR	SAT
	1500z	20 Apr	NRH		CB	SAT
	1500z	27 Apr	'463' 521 30 = = 00743 ... 26794 = = Good, Fast. Numerous errors inc. extra figures added		BR	SAT
6510	0700z	07 Apr	'463' 717 30 = = 09454 ... 69562 = = Strong, fast. Numerous errors noted		CB	SUN
	0700z	14 Apr	'463' 409 30 = = = = 03008 ... 00967 = = = = Fair, med-fast. Mostly jumbled.	Format 3	BR	SUN
	0700z	21 Apr	'463' 173 30 = = 41911 ... 23821 = = Fair, fast. Errors in grps03 & 04. Inverted paired figs.		BR	SUN
	0703z	28 Apr	'463' 517 = 30 = = 20979....74264 = = Fair, slow. Good until grp27. Errors from grp28 - 30		BR	SUN

M01a (From Feb 2016 M01a has been redefined to cover all M01 variants - excepting M01b)

5859	0754z	10 Mar	830 (x3) 205 21 (x2) 830 (x3) 205 21 (x2) 830 (x3) 205 21 (x2) 111 000		F5JBR	SUN
9411	0530 - 0538z	12 Mar	751 (x3) 96894 (x2) Rpt 4 min. ... 751 (x3) 95792 (x2) Rpt 4 min.	(Via SDR Enschede)	E.SMITH	TUE
10233	0620 - 0628z	12 Mar	354 (x3) 78505 (x2) Rpt 4 min. ... 354 (x3) 79326 (x2) Rpt 4 min.	(Via SDR Enschede) Fair	E.SMITH	TUE
9447	0628 - 0638z	12 Mar	143 (x3) 88058 (x2) Rpt 4 min. ... 143 (x3) 88058 (x2) Rpt 2 min. ... 40 sec pause. 111 999 00166 00040 60426 49300 68648 85545 00040 00166 00000 = 166 45 111 0 0 0	(Via SDR Enschede) Fair / Good	E.SMITH	TUE
10651	0710 - 0717z	12 Mar	297 (x3) 38180 (x2) Rpt 4 min. ... 297 (x3) 39318 (x2) Rpt 3 min.	(Via SDR Enschede) Fair / Good	E.SMITH	TUE
9151	0717 - 0724z	12 Mar	728 (x3) 43504 (x2) Rpt 2 min. 111 999 ... 00167 00030 70426 49300 ... 68648 85545 00030 00167 00000 = 167 35 0 0 0	(Via SDR Enschede)	E.SMITH	TUE

9129	0530z	13 Mar	NRH	(Via SDR Enschede + SDR Moscow)	E.SMITH	WED
7692	0539 - 0549z	13 Mar	958 (x3) 47436 (x3) Rpt 5 min. 958 (x3) 49337 (x3) Rpt 5 min.	(Via SDR Moscow)	E.SMITH	WED
9421	0620 - 0629z	13 Mar	135 (x3) 60479 (x3) Rpt 5 min	(Via SDR Moscow)	E.SMITH	WED
8111	0630z	13 Mar	NRH. Test Tones at 0639z*. *The same operator will send on two or more of the frequencies.	(Via SDR Enschede)	E.SMITH	WED
9175	0710 - 0713z	13 Mar	146 (x3) 45623 (x3) Rpt 3 min. 111 0 0 0	(Via SDR Enschede) Fair to Poor.	E.SMITH	WED
9129	0530z	14 Mar	NRH	(Via SDR Enschede + SDR Moscow)	E.SMITH	THU
7692	0540z	14 Mar	NRH	(Via SDR Enschede + SDR Moscow)	E.SMITH	THU
9421	0620z	14 Mar	NRH	(Via SDR Enschede + SDR Moscow)	E.SMITH	THU
8111	0630z	14 Mar	NRH	(Via SDR Enschede)	E.SMITH	THU
9175	0710z	14 Mar	NRH	(Via SDR Enschede)	E.SMITH	THU
9411	0530z	15 Mar	NRH	(Via SDR Enschede + SDR Moscow)	E.SMITH	FRI
10233	0620z	15 Mar	NRH	(Via SDR Enschede)	E.SMITH	FRI
9447	0634 - 0636z	15 Mar	143 (x3) 80037 (x2) Rpt 1 min 25s. 0 0 0	(Via SDR Enschede) Fair	E.SMITH	FRI
10651	0710 - 0718z	15 Mar	297 (x3) 35916 (x2) Rpt 4 min. 297 (x3) 36146 (x2) Rpt 4 min.	(Via SDR Enschede) Fair	E.SMITH	FRI
9151	0718 - 0724z	15 Mar	728 (x3) 44783 (x2) Rpt 4 min. 728 (x3) 45666 (x2) Rpt 2 min. 0 0 0	(Via SDR Enschede) Fair	E.SMITH	FRI
3882	1553z	18 Mar	598 (x3) 79653(x2) 333 46 333 37 333 37 111 000		F5JBR	MON
4905	1214 (IP) - 1216z	19 Mar	M01a Training 94013 24648 04613 54798 74052 49840 13498 65412 36870 46521 = 347 10 0 0 0 Groups, symbol, d.k, group count; repeated twice. Sent slowly with bad timing, broken groups and mistakes.	(Via SDR Silec. Poland)	E.SMITH	TUE
4484	1836z	26 Mar	333 69107 333 69107 111 999 325 43 = 49451 00963 25529 44039 00395 97672 40428 66478 62480 80438 07934 80089 55262 84365 12929 33647 64385 58817 27796 80627 95925 66616 80730 43979 65248 56835 08630 07875 01360 36747 55655 78348 23428 60169 62075 45916 65275 28747 04096 67795 93110 93765 78085 = 325 43 000		F5JBR	TUE
5030.3	2015z 2022z 2034z	26 Mar	536 536 536 52799 52799 (Rptd x5) 536 536 536 52899 52899 (Rptd x3) 536 536 536 52899 52899 52899 52899 52899 52899 52899 52899 52899		AB	TUE
2806	1823z	27 Mar	111 999 (Rptd x5) 29 (x3) 510 63 (x2) 329 (x3) 510 63 (x2) 329 (x3) 510 13 (x2) 329 (x3) 511 14 (x2) 329 (x3) 511 14 (x2)		F5JBR	WED
4571	1745 (IP) - 1828z	27 Mar	333 90570 90570 946 (x3) 333 90984 (x2) (Rptd) 04 0 07 333 99557 99557 (x3) 333 90823 90823 (x3) 946 (x3) 333 99517 (x2) (Rptd x3) 946 (x3) 333 99517 (x2) (Rptd) 04007 946 (x3) 111 90904 90904 (Rptd x5) 111 333 111 04005 946 (x3) 555 98585 98585 96532 96532 90393 90393 99374 99374 111 (x2) 111 000	(Remote tuner Siberia)	JPL Machine sent – Very strong signal Hand sent Machine sent Machine sent Hand sent Hand sent Machine sent Hand sent Hand sent Machine sent Hand sent	WED

2713	1839z	27 Mar	549 (x3) 885 91 (x2) (Rptd) 111 999 186 20 = 85948 73832 67818 32175 73466 83826 12234 63432 98321 85948 80289 09932 53284 62985 45438 65327 35894 37995 02348 9823 = 186 20 000	F5JBR	WED
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M01b

March 2019:

3510//4605	1932z	07 Mar	Weak sig on 3510kHz. No useful copy. Carrier present 4605kHz	BR	THU
	1932z	14 Mar	Weak sig on 3510kHz. No useful copy. Carrier present 4605kHz	BR	THU
	1932 - 1950z	28 Mar	'201' 731 32 = 35894 53572 ... 99159 88528 == Weak//Fair	BR	THU
3520//4585	2110z	08 Mar	Weak sig on 4585kHz. No useful copy. Carrier present 3625kHz	BR	FRI
	2110z	15 Mar	'582' 731 32 = 35894.... AR QRM, 4585 NRH	HFD	FRI
4585	2110z	29 Mar	'582' 731 32 = (SDR HRC)	ER	FRI
3535//4590	1910z	04 Mar	Weak sig on 3535kHz. No useful copy. Carrier present 4590kHz	BR	MON
3535	1910z	11 Mar	'420' 731 731 32 32 == (SDR SW England)	ER	MON
	1910z	18 Mar	'420' 731 32 = 35894...	HFD	MON
	1910z	25 Mar	'420' 731 32 = Very weak (SDR SW UK)	ER	MON
3625//4940	2002z	01 Mar	'153' 731 32 = 35894... 3625kHz NRH	HFD	FRI
	2002z	08 Mar	731 Weak sig on 3625kHz some grps audible. Carrier 4940kHz	BR	FRI
3625	2002z	29 Mar	'153' 731 32 = (SDR SW UK)	ER	FRI
3645//4455	2015z	04 Mar	Weak sig on 3645kHz. No useful copy. Carrier present 4455kHz	BR	MON
3645	2015z	25 Mar	'771' 731 32 = Very weak (SDR SW UK)	ER	MON
	2015z	18 Mar	'771' 731 32 = 35894.... 4465kHz NRH	HFD	MON
3715//4570	2040z	07 Mar	'477' [32] Weak sig both freqs	BR	THU
	2040z	28 Mar	'477' 731 32 = Fair//Fair	ER/BR	THU

April 2019:

3510//4605	1932z	04 Apr	NRH at 1832z - IP at 1941z. Op. error with Daylight Saving time changes?	BR	THU
	1832z	18 Apr	'301' 987 31 = 21545 52619.... Fair sig 4605kHz. Carrier present 3510kHz	BR	THU
4585	2010z	05 Apr	'582' 987 31 = (SDR SWUK)	ER	FRI
3520//4585	2010 - 2027z	12 Apr	'582' 987 31 = 21545 52619.... Fair//Fair-Good	BR	FRI
	2010z	26 Apr	'582' 987 31 = 21545 52619.... Fair//Fair	BR	FRI
4590	1810z	01 Apr	'420' 987 31 = 21545 52619 ... 46364 03809 == 987 987 31 31 000	ER	
3535//4590	1810z	08 Apr	'420' 987 31 = 21545 52619....	BR	MON
3535	1810z	22 Apr	'420' 987 31 = (SDR SWUK)	ER	MON
3625//4940	1902z	05 Apr	'153' 987 31 = 21545 52619....	BR/ER	FRI
	1902z	12 Apr	'153' Weak on both frequencies - No useful copy	BR	FRI
	1902z	26 Apr	NRH on both frequencies	BR	FRI
3645//4455	1915z	01 Apr	'771' Rest unreadable, terrible QRM on frequency	BR/ER	MON
4454	1915z	22 Apr	'771' 987 31= (SDR Finland)	ER	MON
3715//4570	2040z	04 Apr	'477' 987 31 = NRH 1940z. Op. error with Daylight Saving time changes?	BR	THU
	1940z	11 Apr	'477' 987 31 = 21545 52619.... Fair//Fair	BR	THU
	1940z	25 Apr	'477' 987 31 = 21545 52619.... Fair//Fair	BR	THU

M01b 3510//4605kHz 1932z 28 March 2019	M01b 3625//4940kHz 1902z 05 April 2019
201 (R4m) 731 731 32 32 ==	153 (R4m) 987 987 31 31 ==
35894 53572 19426 77957 77990 00861 53537 82589 31569 57043 86778 16658 00513 07442 44231 74479 48118 19567 62224 04475 25776 79969 97292 77775 79708 48407 67061 12053 55247 06854 99159 88528 ==	21545 52619 15193 78619 77685 99356 09715 47136 19314 89752 89314 60387 98101 80268 86800 80763 85085 84134 82180 14700 01380 27323 40592 53498 54572 26882 67743 42232 75109 46364 03809 ==
731 731 32 32 000	987 987 31 31 000
Courtesy BR	Courtesy BR

M08a XVIII ICW / CW, some MCW

No logs

M12 IB ICW, some MCW / CW, short 0. Reuses many freqs year on year.

New ID's may be only for the month/sched shown, but not necessarily unknown . The reason for their reuse, some after long periods of time, is unknown.

European M12 Logs

March 2019:

New scheds in bold type

5763/5163/4463	2200/20/40z	06 Mar	714 000		BR	WED
	2200/20/40z	13 Mar	714 000		BR	WED
	2200/20/40z	20 Mar	714 1 (883 67)	62744 97303....	BR/HFD	WED
8047/6802/5788	1800/20/40z	04 Mar	463 1 (7559 93)	59600 44236....	BR/HFD	MON
	1800/20/40z	11 Mar	463 1 (1069 99)	69802 13684....	BR	MON
	1800/20/40z	18 Mar	463 1 (5846 92)	15834 45548....	BR	MON
	1800/20/40z	25 Mar	463 1 (3646 100)	29228 36590....	BR	MON
8126/7526/6826	2200/20/40z	09 Mar	178 1 (2414 14)	53360 57829...	BR	SAT
	2200/20/40z	15 Mar	178 1 (254 18)	52971 14240 ... 97378 32660 000 000	DanAr	FRI
	2200/20/40z	16 Mar	178 1 (254 18)	52971 14240....	BR	SAT
	2200/20/50z	22 Mar	178 1 (254 18)	52971 14240....	BR	FRI
	2200/20/40z	23 Mar	178 1 (254 18)	52971 14240 ... 97378 32660 000 000	Gert	SAT
	2200/20/40z	28 Mar	178 1 (8610 29)	25725 59626....	BR	FRI
8158/9258/10658	0600/20/40z	02 Mar	126 1 (6655 113)	55967 28487 ... 55296 97401	(Via SDR Enschede) E.SMITH	SAT
	0600/20/40z	09 Mar	126 000		(Via SDR Enschede) E.SMITH	SAT
	0600/20/40z	16 Mar	126 000		(Via SDR Enschede) E.SMITH	SAT
8164/6964/---	2210/30/50z	11 Mar	197 000		BR	MON
	2210/30/50z	18 Mar	197 000		BR	MON
	2210/30/50z	21 Mar	197 000		BR	THU
	2210/30/50z	25 Mar	197 000		BR	MON
	2210/30/50z	28 Mar	197 000		BR	THU
9317/10484/11552	0530/0550/0610z	05 Mar	135 1 (749 23)	26527 42055 ... 32734 60682	(Via SDR Enschede) E.SMITH	TUE
	0610z	12 Mar	135 1 (8323 108)	35205 26076 ... 14401 08128	(Via SDR Enschede) E.SMITH	TUE
	0530/0550/0610z	19 Mar	135 1 (8289 110)	87657 62480 ... 30749 57324	(Via SDR Enschede) E.SMITH	TUE
10172/9072/---	2050/2110/2130z	01 Mar	105 000		HFD	FRI
	2050/2110/2130z	06 Mar	105 000		BR	WED
	2050/2110/2130z	08 Mar	105 000		BR	FRI
	2050/2110/2130z	13 Mar	105 000		BR	WED
	2050/2110/2130z	15 Mar	105 000		BR	FRI
	2050/2110/2130z	20 Mar	105 000		BR	WED
	2050/2110/2130z	22 Mar	105 000		BR	FRI
10343/9264/8116	2000/20/40z	04 Mar	124 1 (28) 3 ... 5 10343kHz NRH. Other freqs very weak	BR	MON
	2000/20/40z	11 Mar	124 1 (9274 101)	77109 77671....	BR	MON
	2000/20/40z	18 Mar	124 1 (1251 109)	63393 ... 07268	Gert/HFD	MON
	2000/20/40z	25 Mar	124 1 (7502 109)	72396 95285....	BR	MON
11566	1737z (IP)*	13 Mar	(IP) ... 05820 19190 73715 09677 63196 000 000		AB	WED
12162/11566/10711	1700/20/40z	14 Mar	546 1 (8315 110) 74993 03373....		BR	THU
	1800/20/40z	14 Mar	546 1 (204 36) 34769 64728....		BR	THU
	1700/20/40z	21 Mar	546 1 (4258 105)	35035 44566....	BR	THU
	1800/20/40z	21 Mar	546 1 (73 . . 41)	47360 76356....	BR	THU
	1700/20/40z	28 Mar	546 1 (7403 112)	35003 77589....	BR	THU
	1800/20/40z	28 Mar	546 1 (5560 109)	52034 95423....	BR	THU

* The Wed sched is 1710/30/50z using the same frequency set at Thursdays 1700z & 1800z scheds.

13952/13452/12152	1310/30/50z	01 Mar	941 941 941 000		AB/HFD	FRI
	1310/30/50z	06 Mar	941 000		Gert	WED
	1310/30/50z	15 Mar	941 1 (5793 53)	185 90420 ... 40926 000 000	Gert/HFD	FRI
	1310/30/50z	20 Mar	941 1 (5793 185)	90420 ... 40926 000 000	Gert	WED
	1310/30/50z	29 Mar	941 1 (244 200)	84863 56230 ... 20208 19267 000 000	Gert	FRI
16276/14876/13376	1400/20/40z	04 Mar	283 1 (176 34)	47320 24323....	BR/HFD	MON
	1400/20/40z	06 Mar	283 1 (176 34)	47320 ... 01574 000 000	Gert	WED
	1400/20/40z	11 Mar	283 000		BR	MON
	1400/20/40z	18 Mar	283 000		BR	MON
	1400/20/40z	20 Mar	283 000		BR	WED
	1400/20/40z	25 Mar	283 1 (6465 80)	21254 47549....	BR	MON
	1400/20/40z	27 Mar	283 1 (6465 80)	21254 47549....	BR	WED

April 2019:

7575/8175/9175	2100/20/40z	06 Apr	511 1 (8610 29)	25725 59626....	BR	SAT
	2100/20/40z	12 Apr	511 000		BR	FRI
	2100/20/40z	13 Apr	511 000		BR	SAT
	2100/20/40z	19 Apr	511 000		BR	FRI
	2100/20/40z	20 Apr	511 000		BR	SAT

	2100/20/40z	26 Apr	511 1 (145 20)	43424 49933 ... 27850 54030 000 000	Gert	FRI
	2100/20/40z	27 Apr	511 1 (145 20)	43424 49933....	BR	FRI
8047/6802/5788	1800/20/40z	01 Apr	463 1 (6036 98)	27636 00899....	BR	MON
	1800/20/40z	08 Apr	463 1 (1135 97)	77123 09203 ... 47541 88759 000 000	Gert	MON
	2000/20/40z	06 Apr	463 1 (2836 99)	72275 20042....	BR	SAT
	1800/20/40z	08 Apr	463 1 (1135 97)	77123 09203....	BR	MON
	2000/20/40z	13 Apr	463 1 (3809 95)	71965 93812....	BR	SAT
	1800/20/40z	15 Apr	463 1 (1832 91)	93816 76063....	BR	MON
	1800/20/40z	22 Apr	463 1 (5160 97)	99881 20854....	BR	MON
	1800/20/40z	29 Apr	463 1 (7350 94)	95409 88239....	BR	MON
10212	2210z	27 Apr	921 000		BR	SAT
10343/9264/8116	2000/20/40z	01 Apr	124 1 (6232 106)	32722 98232....	BR	MON
	2000/20/40z	08 Apr	124 1 (9459 106)	53602 82317....	BR	MON
	2000/20/40z	15 Apr	124 1 (1115 107)	63970 02953....	BR	MON
	2000/20/40z	22 Apr	124 1 (6625 104)	64836 12238....	BR	MON
	2000/20/40z	29 Apr	124 1 (9639 107)	54592 33358....	BR	MON
10572/9372/---	2110/30/50z	11 Apr	531 000		BR	THU
	2110/30/50z	15 Apr	531 000		BR	MON
	2110/30/50z	22 Apr	531 000		BR	MON
	2110/30/50z	25 Apr	531 000		BR	THU
	2110/30/50z	29 Apr	531 000		BR	MON
12162/11566/10711	1710/30/50z	03 Apr	546 1 (1399 106)	03820 05931....	BR	WED
	1700/20/40z	11 Apr	546 1 (2016 105)	08688 86652....	BR	THU
	1800/20/40z	11 Apr	546 1 (5489 106)	85227 15649....	BR	THU
	1710/30/50z	17 Apr	546 1 (5213 108)	87742 20895....	BR	WED
	1800/20/40z	18 Apr	546 1 (6925 106)	36783 31127....	BR	THU
	1710/30/50z	24 Apr	546 1 (2970 106)	11179 11540....	BR	WED
	1800/20/40z	25 Apr	546 1 (9470 109)	12569 32743....	BR	THU
12174/11474/---	1210/30/50z	10 Apr	149 000		BR	WED
	1210/30/50z	12 Apr	149 000		BR	FRI
	1210/30/50z	17 Apr	149 000		BR	WED
	1210/30/50z	19 Apr	149 000		Gert	FRI
	1210/30/50z	24 Apr	149 000		BR	WED
13453/12153/---	1950/2010/2030z	03 Apr	414 000	NRH on 13453kHz	BR	WED
	1950/2010/2030z	10 Apr	414	Very weak - NRH on 13453kHz	BR	WED
	1950/2010/2030z	12 Apr	414 000		BR	FRI
	1950/2010/2030z	24 Apr	414 000		BR/Gert	WED
	1950/2010/2030z	26 Apr	414 000		BR	FRI
18524/17424/---	1400/20/40z	01 Apr	548 000	Very weak	BR	MON
	1400/20/40z	03 Apr	NRH		BR	WED
	1400/20/40z	15 Apr	548 1 (.1.3 50)	Very Weak	BR	MON
	1400/20/40z	22 Apr	NRH		BR	MON
	1400/20/40z	24 Apr	548 000	Very weak - NRH on 18524kHz	BR	WED

M12 8047/6802/5788kHz 1800/1820/1840z 08 April 2019

463 463 463 1 (R2m) 1135 97 1135 97

77123 09203 03596 28884 17619 04550 81762 63330 88606 02840
20254 35176 99633 14113 22492 40369 12019 07381 91201 05658
27751 14394 81326 95384 79750 66139 22685 46002 23885 63621
29598 95767 96127 85478 98920 18977 42783 69119 50301 26024
86512 47243 93296 95879 81871 89772 64920 31308 95213 09267
58540 52938 78443 01458 71891 34049 02036 73697 73970 30053
67710 19952 93491 87486 12975 12057 56744 26322 84541 34955
26507 38373 53260 80310 03049 69345 24196 40432 10189 70553
49031 62174 74700 52977 03378 97210 00400 09019 10322 82384
12077 85700 46758 89487 05244 47541 88759 000 000

Courtesy Gert

M14 IA MCW / ICW Short 0

March 2019:

4650	0900z	02 Mar	523 (270 42) = 67321....		HFD	SAT
	0900z	09 Mar	523 (146 42)	(Via SDR Poland)	ER	SAT
	0900z	23 Mar	523 (130 45) = 34567 27654 ... 40934 48713 == 130 130 45 45 00000		ER	SAT
4730	0800z	02 Mar	523 523 523 00000	[Followed by msg & tests]	AB/ER/HFD	SAT
	0804z		523 (270 42) = 67321 45236 ... 56241 33781 == 270 270 42 42 00000		AB	SAT
	0813z		803 22051 4	[Test]	AB	SAT
	0815z		889 69497 48876 2	[Test]		
	0800z	09 Mar	523 (146 42)	(Via SDR Poland)	ER	SAT

4850	0900z	02 Mar	523 (270 42) = 67321 45236 ... 56241 33781 = 270 42 00000				AB/ER	SAT	
4874	2000z	01 Mar	735 00000				HFD	FRI	
5275	1900z	01 Mar	735 00000				HFD	FRI	
5473	0930z	13 Mar	537 (899 50) = 28901 36471 ... 28901 00268				[Note 1] MCW AB	WED	
5775	1600z	05 Mar	239 00000				MCW	HFD/RNGB TUE	
	1600z	19 Mar	239 00000				MCW RNGB	TUE	
6793	1600z	06 Mar	239 00000				MCW HFD/RNGB	WED	
15994	0930z	11 Mar	617 (432 65) = 88392 52148 ... 09412 27097 00000				Two msg sent (Via SDR Russia) CW CW	AB	MON
			617 (894 50) = 05868 15649 ... 88568 72794 00000						
18041	0500z	18 Mar	952 (830 52) = 38441 37654 ... 23373 04982 (No nulls) (Via SDR NZL)				CW	AB	MON
	0500z	19 Mar	952 (716 51) = 16315 52878 ... 17234 71087 00000 (Via SDR NZL)				CW	AB	TUE
	0500z	20 Mar	952 (840 50) = 14064 08737 ... 09318 01829 00000 (Via SDR NZL)				CW	AB	WED

[Note 1] Found on 5473kHz at 0930z instead of 5463 kHz, 0920z UTC. No outro sent. AB

April 2019:

4650	0900z	13 Apr	523 (352 36) = 35189 47276 ... 90451 64321 00000	(Via SDR Poland)	ER	SAT
4730	0800z	06 Apr	523 (130 45) = 34567 27654 ... 40934 48713 00000	(Via SDR Poland)	ER	SAT
	0800z	13 Apr	523 (352 36) = 35189 47276 ... 90451 64321 00000	(Via SDR Poland)	ER	SAT
	0800z	27 Apr	523 (676 41) Repeat of 20 Apr		ER	SAT
5275	1900z	05 Apr	735 00000	(Via SDR Poland)	ER	FRI
5463	1920z	24 Apr	537 Rest unreadable	(Via SDR Poland)	ER	WED
5938	1820z	09 Apr	346 (673 42) = 90635 25146 ... 78231 45279 00000	MCW	AB	TUE
5947	1820z	23 Apr	946 (673 42) = 90635 25146.... Strong BC QRM over last half of msg		ER	TUE
6793	1600z	17 Apr	239 00000		RNGB	WED
17458	0930z	25 Apr	617 00000	(Via SDR Poland)	ER	THU

M14 18041kHz 0500z 20 March 2019

952 (R4m) 840 840 50 50 ==

14064 08737 31279 10995 75196 02265 82670 08888 80157 58756
94569 70555 74280 32790 54387 80696 94208 48377 61168 04426
90008 53282 15912 32657 20815 41010 50280 19377 09954 70161
42118 53002 70475 35839 91226 29001 37029 72789 53832 15981
65027 94970 59181 32414 83036 01239 56701 76196 09318 01829
==

840 840 50 50 00000

Courtesy AB

M14 4730kHz 0800z 13 March 2019

523 (R4m) 352 352 36 36 ==

35189 47276 90623 90372 22471 87153 41274 68351 99725 74285
36289 84621 74290 14274 50631 57190 73185 90361 26439 78361
64587 31462 909571 73281 09578 13527 78421 11439 82174 43612
32907 67213 89142 56219 90451 64321 ==

352 352 36 36 00000

Courtesy ER

PoSW writes:

M14 MCW:-

Several M14 MCW schedules still running in March and April:-

First + Third Wednesdays in the Month 1600 UTC Schedule:-

6-Mar-19, 6793 kHz, “239 239 239 00000”, strength around S7, carrier with characteristic background noise was up when checked at 1536 UTC.

20-Mar-19, 6803 kHz - “ten up” on last time, “239 239 239 00000”.

3-Apr-19, 6793 kHz, “239 239 239 00000”, strong signal, carrier was up 1527 UTC.

Stays on UTC so now on one hour later local time, 5 pm here.

17-Apr-19, 6793 kHz, “239 239 239 00000”.

Wednesday 1920 UTC Schedule:-

13-Mar-19:- 5473 kHz, some kind of malfunction here, a short burst of Morse heard at 1921:25s UTC, plain carrier only until after 1930z when transmission started up with, “537”

DK/GC “899 899 50 50 ==” and into 5Fs. Stopped sending after 1945z, no ending routine heard, carrier was still on at 1953z, had gone when checked at 1958z.

27-Mar-19:- 5463 kHz, started with a second or two of 1920z, “537” and “899 899 50 50 =”. Finished 1935 UTC with the usual M14 ending routine but with only one “break” sign instead of two.

M23 O ICW

The M23 first reported by Ary, (AB), on 25 February continued to be heard throughout March & April - on the same frequency of 14100kHz. The sequences heard in February were 321 & 254, whereas only 051 was reported for March & April.

14100	1658z	19 Mar	051 (R12m)		Using long zero	AB	TUE
	1658z	20 Mar	051 (R12m)		Using long zero	AB	WED
	1658z	02 Apr	051 (R12m)	Still on air	Using long zero	AB	TUE

M24 IA MCW / ICW / MCWCC (high speed version of M14), short 0

No reports for a long time - May have ceased

M76 Schedule on 3280kHz (Changes to 3820kHz or 3294kHz over the year). A detailed analysis can be found in ENIGMA Newsletter 93 - May2016.

Difficult to receive with a good signal into the UK most of the time, monitors rely on various SDRs for logs of this station.

No reports for a long time - May have ceased

M97 CW, partner station to V30 10375kHz Starts 1453 - 1500z (Variable) .

Due to the poor reception of this signal in both the UK and Canada, GlobalTuners receivers at Hong Kong, Mojave Desert & Sydney - as well as the Twente SDR, were used frequently to confirm the msg detail

No reports for a long time - May have ceased

Morse Stations - Not Number Related

M51 XIX

3881//6825 100 grp 5-ltr messages with headers

No reports

M51a (FAV22) Daily Mon - Fri, Sun & some Sats. See NL 72 for details

No reports

M89 O

This is a summary of activity from the M89 stations.

Traffic & Operator Chat from M89

Traffic & Op. chat reported on the following freqs. (All in kHz).

3098	4113	5123	6046	7146	8066
3692	4123	5201	6565	7891	
3757	4131	5219			
3786	4192	5222			
3819	4230	5233			
3961	4248	5544			
	4321	5780			
	4520	5880			
	4526				
	4572				
	4782				
	4980				

New Scheds for Mar / Apr

A number of changes continue to be made to both call signs & frequencies adding to those changes that occurred at the start of 2019.

3842//4135	New Round Slip for this frequency	First heard 06 Mar	V DFDH (x3) DE 5JNK (x2) on 3842kHz V 3D1U (x3) DE G25H (x2) on 4135kHz
4135//NRH	New Round Slip for this frequency	First heard 02 Mar	V 3D1U (x3) DE G25H (x2)
5858//NRH	New Round Slip for this family	First heard 06 Mar	V DFDH (x3) DE 5JNK (x2)
5858//NRH	New Round Slip for this frequency	First heard 24 Mar	V K9S3 (x3) DE Q5R2 (x2)
3597//7397	New frequency for this Round Slip	First heard 24 Mar	V 3JWV (x3) DE QH4P (x2)

4192//4489	New frequencies & Round Slips	First heard 04 Apr	V D72H (x3) DE 1HM4 (x2) on 4192kHz V N72H (x3) DE 1HM4 (x2) on 4489kHz
Note: Suspect that 4192 // 4489 is new frequency and Round Slip for 3842 // 4135kHz.			
4192 //4489	New Round Slip for this family	First heard 23 Apr	V 2B7D (x3) DE 3GR1 (x2) on 4192kHz V D72H (x3) DE 1HM4 (x2) on 4489kHz
4192// 4489	New Round Slip for this Frequency	First heard 08 April	V D72H (x3) DE 1HM4 (x2)
5691//NRH	New frequency for this Round Slip	First found 08 April	V D72H (x3) DE 1HM4 (x2)
5691// 6881	New Frequency for this Round Slip	First found 10 April	V D72H (x3) DE 1HM4 (x2)
5691//NRH	New Round Slip for this frequency	First found 13 April	V HFL2 (x3) DE M6NY (x2)

There were a number of combinations logged by John-Paul, (JPL), on the 3842//4135kHz pairing during March.

3842//4135	01 March	Sending same Round Slip, but faster on 3842kHz	V K9S3 (x3) DE Q5R2 (x2)
	02 March	Sending different Round Slips	V K9S3 (x3) DE Q5R2 (x2) on 3842kHz V 3D1U (x3) DE G25H (x2) on 4135kHz
	03 - 05 March	Sending different Round Slips	V 8FDH (x3) DE 5J9K (x2) on 3842kHz V 3D1U (x3) DE G25H (x2) on 4135kHz
	06 - 07 March	Sending different Round Slips	V DFDH (x3) DE 5JNK (x2) on 3842kHz V 3D1U (x3) DE G25H (x2) on 4135kHz
	08 March	Sending different Round Slips	V DFDH (x3) DE 5JNK (x2) on 3842kHz V K9S3 (x3) DE Q5r2 (x2) on 4135kHz
	11 - 16 March	Sending different Round Slips	V DFDH (x3) DE 5JNK (x2) on 3842kHz V 3D1U (x3) DE G25H (x2) on 4135kHz
	17 March	Appears both Round Slips were being sent on 4135kHz	V DFDH (x3) DE 5JNK (x2)
	18 - 23 March	Sending different Round Slips	V DFDH (x3) DE 5JNK (x2) on 3842kHz V 3D1U (x3) DE G25H (x2) on 4135kHz
	24 - 29 March	Sending different Round Slips	V K9S3 (x3) DE Q5R2 (x2) on 3842kHz V 3D1U (x3) DE G25H (x2) on 4135kHz

Chart of M89 Freq & Call signs heard in Mar / Apr 2019 New Schedules shown in Bold Type From logs submitted from JPL & F5JBR

Freq in KHz	Call Slip	Freq in kHz	Call Slip
3156//3597	VVV (x3) 3JWV (x3) DE QH4P (x2)	4620//4860////6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
3156//3597//7397	VVV (x3) 3JWV (x3) DE QH4P (x2)	4620//4860//5920//6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
3156//3597//6913//7397	VVV (x3) 3JWV (x3) DE QH4P (x2)		
3597// 7397	V 3JWV (x3) DE QH4P (x2)	4720//5150	VVV WNF (x3) DE FXM (x2)
3842//NRH	V K9S3 (x3) DE Q5R2 (x2)	5177//NRH	V JKDJ (x3) DE SLBC (x2)
3842//4135	V K9S3 (x3) DE Q5R2 (x2)	5691//NRH	V D72H (x3) DE 1HM4 (x2)
3842//NRH	V 8FDH (x3) DE 5J9K (x2)	5691//NRH	V HFL2 (x3) DE M6NY (x2)
3842 //4135	V DFDH (x3) DE 5JNK (x2)	5691//6881	V D72H (x3) DE 1HM4 (x2)
4131//NRH	V JKDJ (x3) DE SLBC (x2)	5858//NRH	V DFDH (x3) DE 5JNK (x2)
4135//NRH	V 3D1U (x3) DE G25H (x2)	5858//NRH	V K9S3 (x3) DE Q5R2 (x2)
4192//NRH	V D72H (x3) DE 1HM4 (x2)	5920//6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4192 //4489	V D72H (x3) DE 1HM4 (x2)	6913//7397	V 3JWV (x3) DE QH4P (x2)
4192 //4489	V 2B7D (x3) DE 3GR1 (x2) (Different R/Slip)	7620//8350	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K
4489// 4192	V D72H (x3) DE 1HM4 (x2) (Different R/Slip)		
4192 //4489	V D72H (x3) DE 1HM4 (x2) (Different R/Slip)		
4489// 4192	V N72H (x3) DE 1HM4 (x2) (Different R/Slip)		

Courtesy JPL

3842//4135	1601z 02 Mar	Different Round Slips sent: V K9S3 (x3) DE Q5R2 (x2) on 3842kHz: V 3D1U (x3) DE G25H (x2) on 4135kHz MSG NR 69 CK 499 ..303 0000 BT (From Round Slips) (Message also being sent on //)			
4113	1455z (IP) 11 Mar	MSG NR 7.42 CK 97 68 0412 2253 RMKS RMKS 4273 TO 4028 MSG NR 681	(Remote tuner Japan)	JPL	MON
4123	1203z (IP) 15 Mar	NR 1594 CK 35 54 0317 2003 RMKS 3.223 TO 9.61 K	(Remote tuner Siberia)	JPL	SUN

4131	SLBC?	1127z (IP) 15 Apr	R DE ZX09 QSL TIME 1922 HR WK NR 159 AR AL3H QSL TIME 1923 WK NR 707 AR R DE GH7U QSL TIME 1923 WK NR 602 AR HR G2R6 QSL TIME 1923 HR WK NR 113 AR K XHUC DE .ZX09 K N DE AL3H QSL TIME 1923 WK NR 707 AR K K4RU DE ZX09 K DE GH7U QSL TIME 1923 WK NR 602 HR K	(Remote tuner China)	JPL	MON
				(4131kHz normally used by SLBC)		
4192		1307z 16 Apr	3GR1 Working 2B7D (only : 2B7D de 3GR V)	(Remote tuner Japan)	F5JBR	TUE
4192//4489		1642z (IP) 10 Apr	V D72H (x3) DE 1HM4 (x2) 15485 /4005/0200/117//3915 AR Y BT	(Remote tuner Siberia)	JPL	WED
4230		1141z (IP) 11 Mar	HR NR 306 HR NR 306 HR NR 306 SK SK	(Remote tuner Hong Kong)	JPL	MON
4412		1111z (IP) 09 Apr	NR 0641/EX 1910 BT A1B/C2D AR	(Remote tuner China)	JPL	TUE
4886	SLBC	1612z 18 Apr	SLBC Working JKDJ (only : JKDJ de SLBC V)		F5JBR	THU
4526		1226z 15 Mar	IEC .. 2. 4 K (Normally associated with Exercise) R IEC 56.8 K NR 05. CK 10 32 03.. 1608 RMKS 4480 TO 4484 K	(Remote tuner Siberia)	JPL	SUN
4782		1215z (IP) 05 Mar	195300 3239 BT D4GB/GBD4 AR K	(Remote tuner Hong Kong)	JPL	TUE
5123		0845z (IP) 15 Apr	FF NR 6082/EX 1646 BT C5A3/SG2 AR FF NR 6082/EX 1646 BT C5A3/HG2 AR	(Remote tuner China)	JPL	MON
5201		0857z (IP) 25 Mar	MSG NR 0022/C6 CK 500 ZZ 0325 1628 RMKS 4131 TO 4004 III	(Remote China)	JPL	MON
6046		0704z (IP) 08 Apr	NR 1003/EX 0906 BT BCR5/BAY3 AR QSY 02 QSY 02 VVV	(Remote China)	JPL	MON
7146		1239z (IP) 19 Mar	NR 1214 CK 191 23 0319 2030 RMKS 4.20 TO 5940 BT	(Remote tuner Siberia)	JPL	TUE
7433	SN7C	0657z (IP) 08 Apr	NR 1002/EX 0903 MCX6/FLO5 AR BT	(Remote tuner China)	JPL	MON
7891		1207z (IP) 23 Mar	IEC BT KBV. AR – Normally exercise related F NR 0531/EX 2005 BT BQ3/.G7 AR F/005/EX 2009 BT KS1/CD3 AR	(Remote tuner China)	JPL	SAT

M89	7891kHz	1207 (IP) - 1213z	23 March 2019
R QSA 2 IEC BT KBV. AR K (IP – Hand sent)			
(Normally exercise related)			(1207z)
R QSA 2 BT H6.5 AR K (Both stations on this frequency)			
R K			
HR U. GA K			
R GA			
FFF NR 0531/EX 200. B QE./G. AR			
F NR 0531/EX 2005 BT BQ3/.G7 AR			
F NR 0531/EX 2005 BT BQ3/CG7 AR K			(1208z)
R QSL 20.8 QSL 2008 QSL 2008 K			
R YR F . K			
R HR F K			(1210z)
HR F GA HR F GA K			
R GA K			
R F/005/EX 2009 BT KS1/CD3 AR			
F/005/EX 2009 BT KS1/CD3 AR			
F/005/EX 2009 BT KS1/CD3 AR			(1211z)
R QSL 2011 K			
R O.. K			
R HR WK NR 1.2 K			
R HR WK NR 310 K			
SK SK			
R NIL SK GB (1213z)			
<i>Courtesy JPL</i>			

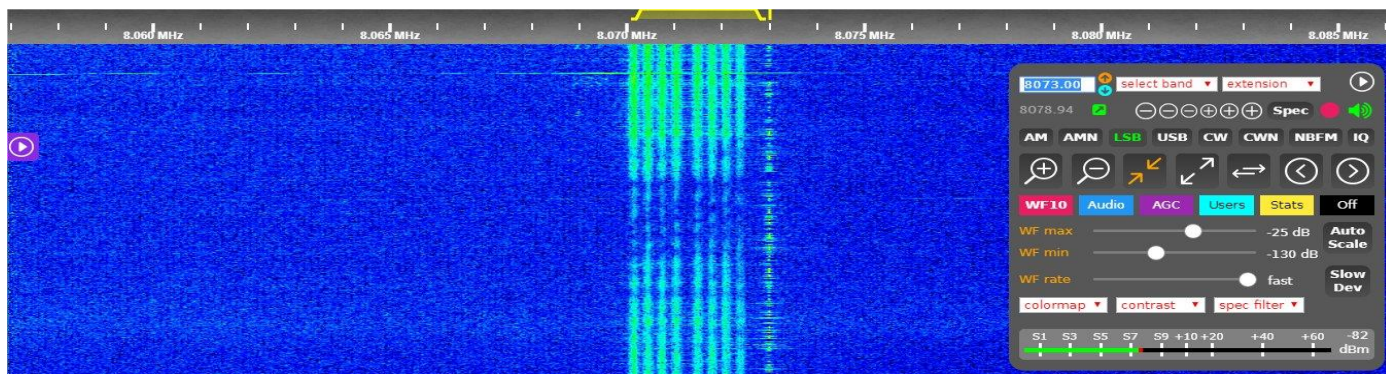
M89	7433kHz	0657 - 0702z	08 April 2019
SN7C	(IP – Cont'd – Machine sent – 0700z)		
FFF NR 1002/REEEE			(0701z)
NR 1002/EX 0903 BT			
MCX6/FLO5 AR			
NU1002/EX 0903MCX6/FLO5 AR			
NU 1002/EX 0903 BT			
MCXB/FLOH AR			
NR 1002GEX T903 BT			
MCX6/FLO5 AR QSY 06 QSY 06 VVV			(0702z)
M89	5123kHz	0845 (IP) - 0848z	15 April 2019
R QSL 1646 K			(IP – Machine sent – 0845Z)
R OK R R			(Both stations on this frequency - 0845z)
A H			
FF NR 6082/EX 1646 BT			
C5A3/SG2 AR			
FF NR 6082/EX 1646 BT			
C5A3/HG2 AR			
FF NR 6082/EX 1646 BT			
C5A3/HG2 AR K			(0847z)
R QSL 1649 QSL 1649 K			
NR HR WK NR 108 K			
R HR WK NR 179 WK NR 179 SK SK			
SK			
<i>Courtesy JPL</i>			

M95 O XSV, XSV70, XSV85

M95 Morse Logs (Bold type indicates new logging)

3045 E2UG 1705 (IP) - 1717z 21 Dec V JX0N (x3) DE E2UG (x2) (IP - Cont'd) (Remote tuner Siberia) JPL FRI

3642//NRH	Call Sign 3A7D 1725z	(Active daily - only first marker log has been included) 13 Mar	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	WED
	2230z	04 Apr	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	THU
3642//7602	Call Sign 3A7D 2030z	(Active daily - only first marker log has been included) 01 Mar	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	FRI
	1301z	08 Mar	BT COMM/21.0/XZ709..3/6450/6689 AR	(Remote tuner Siberia)	JPL	FRI
	1506z	03 Apr	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	WED
4243//NRH	Message number differs from current XSV70 and XSV85 message numbers.					
	1151 (IP) - 1212z	03 Mar	NR 06 CK 180 35 0303 1540 BT	(Remote tuner Hong Kong)	JPL	SUN
	1149 (IP) - 1222z	05 Mar	NR 071 CK 19 35 0303 1635 BT NR 014 CK 47 35 0305 1530 BT NR 10 CK 200 35 0305 1559 BT NR 077 CK 30 35 0305 1617 BT	(Remote tuner Hong Kong)	JPL	TUE
	1142 (IP) - 1213z	08 Mar	NR 020 CK 17 35 0308 1528 BT NR 16 CK 145 35 0308 1600 BT NR 086 CK 22 35 0308 1634 BT	(Remote tuner New Zealand)	JPL	FRI
	1142 (IP) - 1203z	11 Mar	NR 026 CK 46 35 0311 1528 BT NR 095 CK 29 35 0311 1613 BT NR 22 CK 243 35 0311 1624 BT	(Remote tuner Hong Kong)	JPL	MON
	1142 (IP) - 1200z	12 Mar	NR 038 CK 34 35 0312 1520 BT NR 098 CK 14 35 0312 1622 BT NR 24 CK 178 35 0312 1626 BT	(Remote tuner Hong Kong)	JPL	TUE
	1144 (IP) - 1158z	17 Mar	NR 038 CK 30 35 0317 1516 BT NR 014 CK 18 35 0317 1613 BT NR 34 CK 189 35 0317 1630 BT	(Normally repeats each messages, but did not do so today JPL) (Remote tuner Hong Kong)	JPL	SUN
	1147 (IP) - 1209z	22 Mar	NR 048 CK 55 35 0322 1531 BT NR 035 CK 19 35 0322 1612 BT NR 44 CK 204 35 0322 1616 BT	(Remote tuner Hong Kong)	JPL	FRI
	1146 (IP) - 1159z	23 Mar	NR 01 CK 26 49 0323 1830 BT NR 050 CK 49 35 0323 1520 BT NR 46 CK 174 35 0323 1622 BT	(Remote tuner Hong Kong)	JPL	SAT
	1148 (IP) - 1159z	25 Mar	NR 01 CK 26 49 0323 1830 BT NR 054 CK 29 35 0325 1531 BT	(Remote tuner Hong Kong)	JPL	MON
	1142 (IP) - 1157z	26 Mar	NR 055 CK 64 35 0326 1531 BT NR 056 CK 64 35 0326 A531 BT NR 52 CK 174 35 0326 1628 BT	(Remote tuner Hong Kong)	JPL	TUE
	1152 (IP) - 1202z	29 Mar	NR 062 CK 46 35 0329 1553 BT NR 058 CK 24 35 0329 1617 BT NR 059 CK 18 35 0329 1617 BT	(Remote tuner Hong Kong)	JPL	FRI
	1142 (IP) - 1203z	09 Apr	NR 084 CK 42 35 0409 1537 BT NR 096 CK 16 35 0409 1546 BT NR 18 CK 226 35 0409 15.. BT	(Remote tuner Hong Kong)	JPL	TUE
4243//7345	Note: This appears to be new // for 4243 vice 9054kHz. Last time 9054kHz heard by this monitor was 23 Nov 2018					
	0901 (IP) - 0909z	13 Apr	Coded 3-character grps - Switched to voice V26 sched 0911z	(Remote tuner Siberia)	JPL	SAT
	0832 (IP) - 0833z	14 Apr	NR 28 CK 164 35 0414 1555 BT	(Remote tuner Siberia)	JPL	SUN
4364//NRH	Call Sign XSV85 0000 - 0016z	12 Mar	05 05 05 (Very unusual to send 05 before call sign and message) NR 0197 CK 100 35 0312 0657 BT NR 0197 CK 100 35 0312 0657 BT	(Remote tuner Hong Kong)	JPL	TUE
4364//8073	Call Sign XSV85 1130 - 1141z	08 Mar	NR 0190 CK 267 35 0308 1614 BT	(Remote tuner New Zealand)	JPL	FRI
	1130 - 1139z	11 Mar	NR 0196 CK 2.. 35 0311 1636 BT	(Remote tuner Hong Kong)	JPL	MON
	1132 - 1142z	12 Mar	NR 0198 CK 284 35 0312 1556 BT	(Remote tuner Hong Kong)	JPL	TUE
	1137 - 1140z	17 Mar	NR 0216 CK 162 35 03A7 A654 BT	(Remote tuner Hong Kong)	JPL	SUN
	1135 - 1149z	22 Mar	NR 0228 CK 409 35 0322 1606 BT BT	(Remote tuner Hong Kong)	JPL	FRI
	1132 - 1154z	23 Mar	NR 0232 CK 32 35 0323 1631 BT NR 0233 CK 280 35 0323 1700 BT	(Remote tuner Hong Kong)	JPL	SAT
	Note: Sending QPSK 75/3000 - LSB at the same time as CW					



M95	23 March	8073kHz	1146z	Sending Chinese Digital 4+4 QPSK 75/3000 - LSB at the Same Time as Morse				<i>Courtesy JPL</i>
		1139 - 1141z	25 Mar	NR 0240 CK 198 35 0325 1709 BT	(Remote tuner Hong Kong)	JPL	MON	
		1139 - 1141z	26 Mar	NR 0244 CK 150 35 0326 1509 BT	(Remote tuner Hong Kong)	JPL	TUE	
		1145 - 1151z	29 Mar	NR 0251 CK 265 35 0329 1554 BT	(Remote tuner Hong Kong)	JPL	FRI	
		1132 (IP) - 1141z	09 Apr	NR 0284 CK 287 35 0409 1556 BT	(Remote tuner Hong Kong)	JPL	TUE	
		1131 (IP) - 1139z	15 Apr	NR 0296 CK 188 35 0415 1623 BT	(Remote tuner Hong Kong)	JPL	MON	
5700		Call sign GMQM						
		0706 (IP) - 0739z	09 Apr	RMKS 7546 TO 8348 K V VV ..NLC DE GMQM K IEC BT 1323 AR K (Normally associated with exercise) CCK/ CK 19 .. NR 035/CCK CK 19 03 0409 1512 RMKS 7546 TO 8346 K V VV W05X DE GMQM K R IEC BT 1323 AR K NR 036/CCK CK 19 03 0409 1518 RMKS 7546 TO 8341 K V SHCL DE GMQM K (0728z) IEC BT 1323 AR K V VV S5CL DE GMQM K NR 038/CCK CK 19 03 0409 1537 RMKS 7546 TO 7585 K	(Remote tuner China)	JPL	TUE	
5801//NRH	Call Sign 3A7D 1244z	(Active daily - only first marker log has been included)	19 Mar	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	TUE	
5801//10180	Call Sign 3A7D 0449 - 0509z	(Active daily - only first log has been included)	01 Mar	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) NR 001/CCK CK 299 21 04 (Appears that message numbers revert back to 001 at the beginning of the month for this family) NR 001/CCK CK 299 21 0301 1250 RMKS 6457 TO 6453 6866 BT	(Remote tuner Siberia)	JPL	FRI	
	0834 - 0837z		25 Mar	NR 093/CCK CK 199 21 0325 1640 RMKS 6457 TO 6487 BT	(Remote Siberia)	JPL	MON	
	0611z		08 Apr	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	MON	

M95 4243kHz 1142z 11 March 2019

Chinese digital 4+4 QPSK 75/3000 LSB 1142z
V Switched to CW 1150z

VV HR MSG TO YR PSE CY (1150z)

NR 026 CK 46 35 0311 1528 BT
5AA UTT TAA 3U6 3A4 TTU TT3 773 353 N3D
35U 4AN 445 345 N3D 4TA 446 33N N3U 447
3DA N3D 3DU N3D 3D3 4DU N3D 4N6 TT4 773
35A U4T 353 4AA 445 346 N3D 4TA 446 467
3DA N3D 3D3 4D3 N3D 4D6 AR

MSG AGN

NR 026 CK 46 35 0311 1528 BT (Rpts message – 1153z)
AR

A HR MSG GA

NR 095 CK 29 35 0311 1613 BT

UTS TAA 3U6 3A4 TTA TTU TT3 773 35U 36U
4AN 435 336 N3D 4UT 447 46D 33U 33N DA5
N34 446 467 4D4 N3D 4D6 3DA N3D 3D4 AR
MSG AGN

NR 095 CK 29 35 0311 1613 BT (Rpts message – 1200z)
AR (1202z)

A HR 7G GA

NR 22 CK 243 35 0311 1624 BT

UTU TAA 3U6 3A4 7TU 7TA 7TN 73U 7UT TTU 773
(Cont'd – 1203z)

Courtesy JPL

M95 10180//5801kHz 0449z 01 March 2019

V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)

V VV HR 7G GA (From R/S – Hand sent – 0449z)

NR 001/CCK CK 299 21 04

(Appears that message numbers revert back to 001 at the beginning of the month for this family)

NR 001/CCK CK 299 21 0301 1250 RMKS 6457 TO 6453 6866 BT

36T5 3767 N35N 47DN 5N5A 5D65 3AUN 73D7 6N6U TTA5 5AAN

57T5 (Cont'd – 0450z)

AR QSL ? HR WK NR 050 (Return to R/S - 0509z)

M95 10180//5801kHz 0834z 25 March 2019

V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)

V VV 7G GA NR 0 EEEE (From R/S – Hand sent – 0836z)

NR 093/CCK CK 199 21 0325 1640 RMKS 6457 TO 6487 BT

.U6A 43TA .3TA 46UT AUTU 63DN 5UD6 TU5A T575 4547 UA45
(Cont'd – 0837z)

Courtesy JPL

Oddities

Four Rising Tones - 7605kHz

7506	1900 - 2200z	14 Mar	Four rising tones heard in Holland still ongoing.	AB	THU
	2241z	14 Mar	The four rising tones still on air and heard fine in Argentina	Daniel/AR	THU

Danix suggests that it is likely to be the South African Navy as it could also be heard on 8603 kHz, their known channel. Danix monitored it there last evening, and some minutes after it stopped, their MHF-50 modem came back, sending the usual idle sequences.

Jochen, who has a musical ear, commented that it was a nice sequence in C major. The signal was missing on 15 March.

Nineteen Dots - One Dash - 6780kHz

6780		26 Mar	CF for station sending 19 dots & 1 dash	AM	BW	TUE
6780	2150z	31 Mar	CF for station sending signal of 19 dots and ending with a dash. 2150z	AM	BW	SUN

Ary, (AB), provided the following information about the station.

The station on 6780 was first reported to me in February. Sometimes you can hear two stations on the same frequency. One stronger than the other. The weaker station is also slower than the stronger one.

A similar station, sending only dashes, uses 6776 kHz.

Ary believes, based on monitoring of various SDRs, that the station could be located in SE Australia, probably NSW or ACT.

Contributors: AB, AnonUS, BR, BW, CB, Danix, Daniel/AR, Danix, E.SMITH, ER, F5JBR, Gert, HFD, Jan O, Jochen, JPL, PLdn, RNGB
Thank you all for your logs.

Not Number Station but Possibly Interesting:-

M51 CW in its various sub-variants continued to be busy in March and April, heard with fast groups of five on 3881 // 6825 kHz, still a good signal on 3881 even in the daylight hours whereas 6825 much weaker and sometimes not readable at all. There appears to be some special activity from this source on a Thursday:-

28-Mar-19, Thursday:- 1756 UTC, 3536 kHz:- what appeared to be CW of the kind often heard from M51 on a frequency inside the 80 metre amateur band. Strong signal, a check found similar activity on 6825, much weaker. At 1811 UTC, much slower Morse, appeared to be plain language in French. A few minutes later was sending what appeared to be a list of French amateur radio call-signs. This sounded somewhat familiar and looking back through the log similar traffic had been heard on 21-June-18, also a Thursday, on 6825.

Paused after the call-sign list and started up again with, "CQF CQF DE F9TM F9TM RESEAU NATIONAL FRANCAIS...." Seems to be a regular Thursday thing, similar was heard on Thursday 11-April at 1714 UTC on 3536, appears to have shifted by one our so is on at the same local time, after 6 pm in the UK, now summer time is in use.

Ukrainians sounding off on 40 metres:- For some time now there has been some non-amateur SSB activity in the 40 metre band, presumed to be in the Ukrainian language given the content of their statements when they sound off in English, as they sometimes do:-

3-Mar-19, Sunday:- 1509 UTC, 7055 kHz, strong SSB signal in Slavic language repeated over and over, OM voice, heard also in English with YL voice, strong accent, somewhat difficult to understand in total but the general message was, "All Russian Nazis that (something) on these frequencies, all your data and conversations are entered into the (something) of the (something), are you (something) for criminal liability as soon as you change Putin's criminal regime and the Russian Federation."

Not too clear what message they are trying to convey to us short-wave listeners there, then. On a related note, it was reported a couple of weeks ago that a comedian had won the general election in Ukraine which provoked the reaction here of, "what's so unusual about that? We've got over six hundred of them in our parliament."

Voice, Polytone, Tones, Hybrids and FSK

E06

Mar/April log:

First /Third Thursday (repeats Friday)	0600z	16230kHz	0700z	19325kHz
07/03	'864' 297 53 06371 86966 41873 93781 09526 40462 82618 59416 41667 10161 93556 13720 48256 03524 87744 47987 68556 11468 67788 90362 93851 18223 68880 61996 30845 37070 31228 07947 99922 20392 44067 85991 22958 17483 28446 49290 80367 78540 50959 83825 42082 28298 85636 86574 02140 57713 66156 95333 71569 07171 95578 06145 96137 297 53 00000			
21/03	'864' 129 50 80767 10446 38826 84013 68127 13184 54004 26235 05323 01766 70762 83463 79643 19246 12450 87851 03881 64713 25172 98213 88587 48339 21773 63717 79285 71132 49365 05249 82035 46590 66321 44140 25844 06425 39683 32953 35304 57570 98910 67992 11943 82633 06926 88254 47688 01003 34371 90484 18911 32779 129 50 00000			

		0500z	15645khz	0600z	17470kHz	
04/04	'951'	803 62 70049 32865 70138 32471 48902 04482 22709 06330 66094 94323 13104 73121 18571 71470 83477 02383 22833 37534 12466 15195 98811 39807 49699 00513 70258 66942 62920 94477 80066 19326 58627 27411 43981 71354 62197 68169 91115 67790 68417 20545 64728 21390 98363 51413 81691 03982 23563 55299 74081 48198 43380 85063 61346 02034 26567 03382 26469 03421 52904 34716 94572 67019 803 62 00000				

18/04	'951'	437 62 91217 99013 67600 89312 10376 96426 46279 98230 20010 06817 94387 44859 10038 73694 74085 78006 89609 43372 94747 08596 08539 15866 86208 09600 25701 30651 46311 47549 35349 41975 36212 52817 87273 63408 21883 20857 61743 86318 85233 61586 85178 01959 53306 39102 97476 81857 18975 68917 06936 96197 51581 64901 93717 74866 20951 53117 47782 40875 83231 94740 52228 70826 437 62 00000				
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First/Third Thursday of month	2030z	5186kHz	(frequency may vary slightly)	
07/03	No reports			
21/03	'891'	149 52 12265 10965 47839 38654 84677 93453 72217 84393 04673 97564 01824 75643 84221 95647 92112 94543 76577 43435 47322 84232 95674 87344 57438 45763 49325 57438 92190 96785 21244 05674 01765 76354 83645 21234 97564 82133 07564 83234 75312 71211 05674 65374 67321 94884 23483 82521 41212 57333 85331 53234 05124 95732 149 52 00000		

04/04	'891'	472 52 12265 10965 47839 38654.....etc	(same old message)
18/04	'891'	472 52 12265....	(transmitted as G06!) Also tune up earlier was using G06 lady

Friday following First & Third Thursday	2130z	5197kHz (frequency may vary slightly)	
08/03	'634'	967 42 45678 68475 69385 39620 49385 58736 37233 65864 28376 29395 48638 34693 23852 23468 34679 34689 32929 23658 24368 26722 67564 69477 23725 24369 90453 78347 36125 21632 13258 23658 65824 67893 79435 83478 32496 23582 29693 23682 23692 23648 23936 26389 967 42 00000	

PoSW writes:

First + Third Thursdays in the Month 2030 UTC Schedule:-

7-Mar-19:- 5186 kHz, started about 20 seconds before the half-hour, call "891", DK/GC "472 472 52 52", strong signal, looks like the same message of fifty-two 5F groups which has been used many times by E06 and G06 since late 2016 but with a DK of "149". Ended after 2042 UTC, computer shut-down sounds heard just before 2043.

21-Mar-19:- 5186 kHz, call "891", same message of fifty-two 5F groups as last time but with the more familiar DK of "149". Strong signal, pushing the needle to S9+, computer shut-down sounds heard after the transmission had ended.

4-Apr-19:- 5186 kHz, started the best part of a minute before the half-hour, call "891", DK/GC "472 472 52 52", as on 7-March. Ended 2042 UTC, computer shut-down head about fifteen seconds afterwards.

18-Apr-19:- 5186 kHz:- something a unusual this evening, although not entirely unknown, instead of the E06 OM voice came up using the G06 German YL voice, had to check that this really was 9.30 pm on the third Thursday of the month. Call "891" and "472 472 52 52". Looking back through the logs of years past a similar appearance in G06 mode was noted on Thursday 15-Dec-16 and Friday 7-Oct-16. Some particular significant meaning to this? Or merely a mistake on someone's part?

Friday 2130 UTC Schedule Following First + Third Thursdays:-

8-Mar-19:- 5197 kHz, started about 25 seconds before the half-hour, call "634", DK/GC "967 967 42 42", not too strong, became weaker as the transmission progressed, difficult copy at times, became stronger by end of transmission around 2141 UTC.

22-Mar-19:- 5197 kHz, "634" and "149 149 52 52", good signal.

5-April-19:- 5197 kHz, "634" and "967 967 42 42", strong signal, started about four or five seconds before the half-hour.

E07

Before others' logs PoSW offers his analysis:

Saturday + Sunday Schedule, 0700 UTC Start, 0600 UTC in April:-

2-Mar-19, Saturday:- 0700 UTC 10112 kHz, "111 111 111 000", weak signal. 0720 UTC, 11112 kHz, second sending, stronger.

3-Mar-19, Sunday:- 0700 UTC, 10112 kHz, and 0720 UTC, 11112 kHz, both considerably stronger signals than they had been twenty-four hours earlier, "111 111 111 000".

10-Mar-19, Sunday:- 0700 UTC, 10112 kHz, "111 111 111 000", weak signal. 0720 UTC, 11112 kHz, much stronger, up to S9.

16-Mar-19, Saturday:- 0700 UTC, 10112 kHz, "111 111 111 1", DK/GC "642 93" x 2, weak signal, inside the 30 metre amateur band, CW on close frequency. 0720 UTC, 11112 kHz, stronger, S7 to S8. 0740 UTC, 12112 kHz, stronger still, peaking S9.

17-Mar-19, Sunday:- 0700 UTC, 10112 kHz, "111" and "642 93" again, weak at first, came up to around a "5" on the S-meter. 0720 UTC, 11112 kHz, S7, and 0740 UTC, 12112 kHz, over S9, the repeats.

24-Mar-19, Sunday:- 0700 UTC, 10112 kHz, “111 111 111 000”, amateur CW on close frequency, all trying to work a DX station, I think, an SP5 station very strong.
0720 UTC, 11112 kHz, S6.

30-Mar-19, Saturday:- 0700 UTC, 10112 kHz, “111 111 111 1”, DK/GC “642 93” x 2, return of the message heard in the middle of this month.
Weak signal.
0720 UTC, 11112 kHz, stronger, and 0740 UTC, 12112 kHz, stronger still, the repeats.

6-Apr-19, Saturday:- 0600 UTC, 9064 kHz, “024 024 024 000”, weak signal.
0620 UTC, 10264 kHz, second sending, slightly stronger.

7-Apr-19, Sunday:- 0600 UTC, 9064 kHz, and 0620 UTC, 10264 kHz, “024 024 024 000”.

13-Apr-19, Saturday:- 0600 UTC, 9064 kHz, “024 024 024 000”, S8.
0620 UTC, 10264 kHz, weaker.

Monday + Wednesday Schedule, 2000 UTC Start, 1900 UTC in April:-

6-Mar-19, Wednesday:- 2000 UTC, 10651 kHz, “616 616 616 1” for a full message, very weak, unreadable.
2020 UTC, 9151 kHz, second sending, much stronger, DK/GC “827 142” x 2.
2040 UTC, 7651 kHz, fair signal.

11-Mar-19, Monday:- 2000 UTC, 10651 kHz, very weak, unreadable.
2020 UTC, 9151 kHz, S8 signal, “616” and “827 142” again.
2040 UTC, 7651 kHz, S7 to S8.

13-Mar-19, Wednesday:- 2000 UTC, 10651 kHz, “616” and “827 142”, weak.
2020 UTC, 9151 kHz, and 2040 UTC, 7651 kHz, repeats, both around S7.

18-Mar-19, Monday:- 2000 UTC, 10651 kHz, very weak signal, unreadable.
2020 UTC, 9151 kHz, “616 616 616 000”, weak but clear.

25-Mar-19, Monday:- 2000 UTC, 10651 kHz, and 2020 UTC, 9151 kHz, both around S6 to S7, “616 616 616 000”.

27-Mar-19, Wednesday:- 2000 UTC, 10651 kHz, and 2020 UTC, 9151 kHz, “616 616 616 000”, both transmissions peaking S9.

3-Apr-19, Wednesday:- 1900 UTC, 15819 kHz, very weak signal on the predicted frequency for the first sending, unreadable.
1920 UTC, 14,419 kHz, second sending also very weak, “full message” format so the third frequency will be used.
1940 UTC, 12219 kHz, “842 842 842 1”, DK/GC “827 142” x 2, not too strong.

15-Apr-19, Monday:- 1900 UTC, 15819 kHz, “842 842 842 000”, very strong signal unlike on the 3rd.
1920 UTC, 14419 kHz, weaker.

22-Apr-19, Monday:- 1920 UTC, 14419 kHz, missed 1900z sending, “842 842 842 000”, weak but clear.

Sunday + Wednesday Schedule, 1800 UTC Start, 1700 UTC in April:-

6-Mar-19, Wednesday:- 1801 UTC, 10321 kHz, call-up for a “full message” in progress when found, “318 318 318 1”, DK/GC “598 239” x 2 – an unusually long message, peaking around S8 most of the time.
1831 UTC, just after, 9121 kHz, second sending, running late due to the long message.
1908 UTC, 7821 kHz, third sending in progress, missed the start, weakest of the three transmissions.

10-Mar-19, Sunday:- 1800 UTC, 10321 kHz, “318” and “598 239” again, much weaker than on Wednesday.
1831:20s UTC, 9121 kHz, S7 to S8.
1902:40s UTC approx, 7821 kHz, around S6.

13-Mar-19, Wednesday:- 1800 UTC, 10321 kHz, “318” and “598 239” again.
1831 UTC, just after, 9121 kHz, and 1902 UTC, 7821 kHz, the repeats.

17-Mar-19, Sunday:- 1800 UTC, 10321 kHz, and 1820 UTC, 9121 kHz, “318 318 318 000”, good signal on both transmissions.

24-Mar-19, Sunday:- 1800 UTC, 10321 kHz, and 1820 UTC, 9121 kHz, “318 318 318 000”.

27-Mar-19, Wednesday:- 1800 UTC, 10321 kHz, back in “full message” mode, “318 318 318 1”, DK/GC “5952 69” x 2.
1820 UTC, 9121 kHz, and 1840 UTC, 7821 kHz, repeats.

7-Apr-19, Sunday:- 1708 UTC, 13417 kHz, transmission in progress found at about eight minutes into a “full message”, strong signal. Surprised it was still going after 1720 UTC, must be an unusually high group count, finally ended around 1727.
1733 UTC, 12117 kHz, call-up routine started when found, “417 417 417 1”, DK/GC “6882 250” x 2, strong signal.
1805:10s UTC, 10717 kHz, third sending, weakest of the three, S4 to S5.

10-Apr-19, Wednesday:- 1700 UTC, 13,417 kHz, “417” and the long “6882 250” again, much weaker than on 7-April.
1732:30s UTC, 12117 kHz, second sending much stronger, pushing the meter over the “9”.
1806 UTC, 10717 kHz, in call-up mode when tuned in, signal strength back down to S6-S7.

17-Apr-19, Wednesday:- 1700 UTC, 13417 kHz, “417 417 417 1”, DK/GC “358 153” x 2, another relatively long message, strength around S7.
1720 UTC, 12117 kHz, signal strength up to S9 but fading right down at times, and 1740 UTC, 10717 kHz, S6.

21-Apr-19, Sunday:- 1700 UTC, 13417 kHz, and 1720 UTC, 12117 kHz, both strong, “417 417 417 000”.

24-Apr-19, Wednesday:- 1700 UTC, 13417 kHz, “417 417 417 1”, DK/GC “317 178” x 2, back in “long message” mode, ended after 1720z. Good signal, very strong wide-shift FSK signal on the HF side close enough to be a nuisance. 1725 UTC, just after, 12117 kHz, strong signal. 1750 UTC, after, 10717 kHz, third sending weakest of the three.

Others’ logs

Sunday/Wednesday

March 2019

1800z	10321kHz	1820z	9121kHz	1840z	7821kHz
06/03	318 1 598 239 97316 ... 36069 000 000			[27m lg] Due to 27m msg lgth start times were 1800/1831/1901z	Weak
10/03	318 1 598 239 97316 ... 36069 000 000				Weak
13/03	318 1 598 239 97316 ... 36069 000 000			[27m lg]	Weak, 1840z NRH
17/03	318 000			[1820z Weak, noisy]	Strong, QSB2
20/03	318 000			[1820z Weak, noisy]	Fair
24/03	318 000				Fair, local noise
27/03	318 1 5952 69 90363 ... 45482 000 000				Fair
318 318 318 1 5952 69 5952 69 90363 04914 70442 85904 33685 14700 68356 34052 08144 17321 43895 26452 59662 97685 85517 09835 12345 77975 23096 98236 64014 32540 06488 39312 13418 82773 84219 55222 11729 31947 64886 20267 94016 34562 36504 43497 87522 27917 17139 02533 38116 72521 39646 33341 57362 72063 31515 54071 57085 86767 34946 73252 01743 23573 78990 01301 58087 37098 00705 21864 54660 11949 77950 28971 85890 54470 22695 24110 45482 000 000 <i>Courtesy Ary/SR</i>					
31/03	318 1 5952 69 90363 ... 45482 000 000			[1840z Strong]	Fair

April 2019

1700z	13417kHz	1720z	12117kHz	1740z	10717kHz
03/04	NRH				Previous freqs searched
07/04	417 1 6882 250 34013 ... 11466 000 000				Strong*
*Note. Due to long message start times were 1700/1733 and 1805z. The 3 rd sending failed at group 175 restarted at group 166: 417 x 3 1 3 times then 16022.....11466 000 000 . [Thanks Malc]					
10/04	417 1 6882 250 34014 ... 11466 000 000				Weak
417 1 6882 250 6882 250 34013 20389 57139 23647 43150 98189 62348 78078 32283 36523 03830 53783 15777 19869 59337 18269 26497 61926 45613 81349 72007 19779 21796 19084 89591 80837 75551 41392 32876 61032 79343 52175 43719 70515 78143 31707 58081 54333 79068 01413 34634 12676 53265 75461 42545 86722 99350 28333 78312 19930 93354 84920 84555 53693 18721 33869 65793 33966 91823 93463 19317 88201 43456 30677 01605 74551 95342 10515 59924 22407 16360 93900 97084 65199 84112 09542 40364 92315 18102 57979 93092 24501 47550 97885 50160 14560 01015 18282 26520 32860 21632 40469 91695 43835 49280 80214 75171 99270 63914 87205 98335 25330 95400 50922 97282 03936 05405 30799 14225 91880 17032 15515 16970 07145 63302 43390 53644 81251 36147 39056 25622 60599 92881 84414 95079 01584 25554 48867 52231 52883 75749 21990 23858 86784 07566 36158 19617 04959 17976 93389 47656 48988 41708 26275 00765 58251 17771 64266 60179 18535 44453 61955 08984 94837 74435 07012 37320 74414 46938 99070 85608 27633 89522 16022 85773 54073 57296 26197 26070 28512 71598 77493 95250 18981 44421 86962 79192 06679 33401 55680 02395 62232 68230 80499 23844 71668 15309 02141 68100 74854 21496 69319 96995 25971 87804 91719 65978 17663 84922 14314 17243 99019 04621 44364 07121 77429 64090 56717 55764 68222 90645 11814 15986 31836 55476 52091 16751 99608 45844 74670 63955 63576 22909 03593 25590 18917 06666 23677 11038 68178 00021 80534 95380 10395 68252 17974 59740 42613 11460 90927 88405 57180 34630 26044 83214 28333 29766 37678 27001 11466 000 000 note- bold & underlined groups may have errors <i>Courtesy Slowroll</i>					
14/04	417 1 358 153 95208 ... 98262 000 000				Weak
17/04	417 1 358 153 95208 ... 98262 000 000			[1700z Fair, 1740z Weak]	Strong
21/04	417 000				Fair
24/04	417 1 317 178 35618 ... 43787 000 000			[1810z Strong]	Fair
28/04	417 1 317 178 35618 ... 43787 000 000			[1810z Weak]	Fair

Sunday/Saturday

March 2019

0700z 10112kHz 0720z 11112kHz 0740z 12112kHz [Saturday/Sunday]
1400z 10112kHz 1420z 11112kHz 1440z 12112kHz [Sunday]

02/03	111 000	[0720z NRH]	Weak
03/03	111 000		Weak
09/03	111 000		Fair
10/03	111 000	[0720z Unworkable]	Weak
16/03	111 1 642 93 67101 ... 27645 000 000		Weak, noisy
17/03	111 1 642 93 67101 ... 27645 000 000		Weak, noisy 0700z et al
17/03	111 1 642 93 67101 ... 27645 000 000		Weak/Fair 1400z et al

111 111 111 1 642 93
67101 74210 05323 89137 24695 86066 59748 37276 55714 43965
47433 54074 65124 10640 01506 31683 47372 16155 34018 94412
47168 18111 43799 51667 84913 89987 68294 11570 72004 11111
38584 78755 84550 20350 75028 81275 22484 65931 93826 32498
70557 03795 73279 47605 97294 27538 76489 00561 91862 91528
59804 68238 23807 26803 43507 38449 46781 73136 12524 63757
22282 90474 31537 96030 01031 62482 59179 00705 25185 13982
70590 47324 23844 02170 35799 60627 52414 68379 67362 51402
15570 42203 57806 22762 40278 51596 50030 27465 64243 01816
29766 27145 27645 000 000

Courtesy Slowroll123

23/03	111 000		Fair
24/03	111 000	[0700z CWQRM2]	Fair
30/03	111 1 642 93 67101 ... 27645 000 000	[0720z NRH]	Weak, noisy
31/03	111 1 642 93 67101 ... 27465 000 000	[0700z Weak]	Fair

April 2019

14/04	024 000	[1320z QRM]	Weak
20/04	024 1 297 73 39552 ... 09737 000 000		Fair
21/04	024 1 297 73 39552 ... 09737 000 000	[0640z QSB3]	Fair
21/04	024 1 297 73 39552 ... 09737 000 000		Fair

Thursday

1400z 10112kHz 1420z 11112kHz 1440z 12112kHz [Thursday]

14/03	111 1 642 93 16015 ... 27465 000 000		Weak (Dutch SDR)
21/03	111 1 642 93 67101 ... 27645 000 000		Strong
28/03 1400z sched	111 1 642 93 67101 ... 27645 000 000	[1440z Fair]	Weak

April 2019

0600z 9064kHz 0620z 10264kHz 0640z 11464kHz

06/04	024 000		Weak
07/04	024 000		Weak, noisy
27/04	024 1 297 73 39552 ... 09737 000 000		Weak to fair
28/04	024 1 297 73 39552 ... 09737 000 000		Weak to fair
28/04 1300z sched	024 1 297 73 39552 ... 09737 000 000	[1300z Fair, noisy]	Strong

Thursday

1310z 9064kHz 1330z 10264kHz 01350z 11464kHz

11/04	024 000		Weak
25/04	024 1 297 73 39552 ... 09737 000 000		Weak

Monday/Wednesday**March 2019**

2000z	10651kHz	2020z	9151kHz	2040z	7651kHz	
04/03	616 1 827 142 65226 ... 17575 000 000				[2000/2020z QRM5]	Fair, localQRM3
06/03	616 1 827 142 65226 ... 17575 000 000					Weak
11/03	616 1 827 142 65226 ... 17575 000 000				[2000z Dutch SDR]	Weak
13/03	616 1 827 142 65226 ... 17575 000 000				[2000z Weak, noisy]	Fair
18/03	616 000				[2000z NRH]	Weak
20/03	616 000					Fair
25/03	616 000					Fair
27/03	616 000					Fair to strong

April 2019

1900z	15819kHz	1920z	14419kHz	1940z	12219kHz	
01/04	842 1 827 142 65226 ... 17575 000 000				[1900/1920z NRH]	Weak (Dutch SDR)
03/04	842 1 827 142 65226 ... 17575 000 000				[1900/1920z Dutch SDR]	Weak
08/04	842 000				[1900z Dutch SDR]	Weak
10/04	NRH					
15/04	842 000					Strong
17/04	842 000				[1900z Dutch SDR]	Weak
22/04	842 000					1700z Weak, 1720z Fair
24/04	842 000					Strong
29/04	842 000					Strong

Tuesday/Friday**March 2019**

0700z	14942kHz	0720z	16142kHz	0740z	18042kHz	
12/03	NRH					
15/03	NRH					
26/03	Unworkable				[0720/0740z NRH]	

April 2019

0700z	17453kHz	0720z	18453kHz	0740z	19653kHz	
05/04	NRH					
09/04	NRH					
19/06	NRH					
23/04	NRH					
26/04	446 000					Weak
30/04	NRH					

Tuesday/Friday

March 2019

1100z	19118kHz	1120z	17418kHz	1140z	15918kHz	
12/03		149 1 487 102 70382 ... 13166 000 000		1100z NRH, 1120z Unworkable]		Weak
15/03		149 1 487 102 70382 ... 13166 000 000			[1100/1120z NRH]	Weak
19/03		NRH				
22/03		149 000			[1100z NRH]	Weak
26/03		149 1 9987 143 60643 ... 31767 000 000			[1100/1120z NRH]	Weak
29/03		149 1 9987 143 60645 ... 31676 000 000			[1100/1120z NRH]	Weak

April 2019

1100z	20574kHz	1120z	19074kHz	1140z	17474kHz	
02/04		504 000				Weak(Dutch SDR)
05/04		NRH				
09/04		NRH				
12/04		NRH				
19/04		NRH				
23/04		504 000				Weak (Dutch SDR)
26/04		NRH				
30/04		NRH				

Thursday/Saturday

March 2019

1410z	16284kHz	1430z	14854kHz	1450z	kHz	
09/03		328 000				Weak
14/03		328 000				Weak (Dutch SDR)
16/03		328 000				Weak
21/03		328 1 4000 57 78900 ... 97841 000 000				Ary THU

328 328 328 1 4000 57 4000 57
78900 93719 85939 95077 46103 01332 17847 29128 08424 80069
35005 05042 66228 59183 94788 96508 87518 51803 72051 13148
98460 82474 88123 06797 49155 45847 84779 81441 99353 20587
74377 14182 54314 46377 38634 85932 11582 57196 12750 01855
46774 59864 83033 72321 68657 14668 48316 15266 15822 82756
66191 36818 23550 15459 16737 17986 97841 000 000
Courtesy Ary

21/03		328 1 4000 57 77900 ... 97841 000 000				Weak
23/03		328 1 4000 57 77900 ... 97841 000 000				Weak
28/03		NRH				[tnx M8]

Thursday/Saturday

April 2019

1410z	16331kHz	1430z	15831kHz	1450z	kHz	
06/04		NRH		Last freq not found		
11/04		893 000			[1410z Dutch SDR]	Weak
13/04		893 000				Weak
18/04		893 1 331 49 72152 ... 02560 000 000				Weak
20/04		893 1 331 49 72152 ... 02560 000 000			[1430z Dutch SDR]	Weak

E07a

We start with PoSW's analysis and logs:

Friday 1610 UTC Start, 1510 UTC in April:-

1-Mar-19:- 1610 UTC, 11473 kHz, "413 413 413 1 35013", DK/GC "540 71" x 2, same message as heard on the last Friday in February. Good signal.

1630 UTC, 10173 kHz, second sending, much weaker signal.

1650 UTC, 9373 kHz, very weak at first, came up to S4 to S5.

8-Mar-19:- 1610 UTC, 11473 kHz, "413 43 413 000", S6 with deep QSB.

1630 UTC, 10173 kHz, slightly stronger, still fading up and down.

22-Mar-19:- 1610 UTC, 11473 kHz, and 1630 UTC, 10173 kHz, both strong signals, "413 413 413 000".

29-Mar-19:- 1610 UTC, 11473 kHz, "413 413 413 000", started off strong but rapidly became weaker.

1630 UTC, 10173 kHz, weak but clear.

12-Apr-19:- 1510 UTC, 12174 kHz, "102 102 102 000", peaking around a "7" on the S-meter.

1530 UTC, 11074 kHz, second sending, weaker.

Saturday 0900 UTC Start, 0800 UTC in April:-

2-Mar-19:- 0900 UTC, 11133 kHz, "114 114 114 1 35013", DK/GC "540 71", same message as yesterday's 1610z schedule - as expected – and on 23-Feb.

9-Mar-19:- 0900 UTC, 11133 kHz, "114 114 114 000", S5.

0920 UTC, 12133 kHz, stronger, over S9 at times.

16-Mar-19:- 0900 UTC, 11133 kHz, and 0920 UTC, 12133 kHz, both S6 to S7, "114 114 114 000".

30-Mar-19:- 0900 UTC, 11133 kHz, "114 114 114 000".

0920 UTC, 12133 kHz, second sending, both indicating S6 to S7.

6-Apr-19:- 0800 UTC, 12218 kHz, "244 244 244 000", weak signal, missed the second sending which would have been on 13418.

13-Apr-19:- 0800 UTC, 12218 kHz, and 0820 UTC, 13418 kHz, both around S7, "244 244 244 000".

Wednesday 2100 UTC Start, 2000 UTC in April:-

6-Mar-19:- 2100 UTC, 5877 kHz, "825 825 825 000".

2120 UTC, 5277 kHz, second sending, both transmissions around S8 and not the S9+ we normally associate with this schedule.

13-Mar-19:- 2100 UTC, 5877 kHz, and 2120 UTC, 5277 kHz, both very strong signals this evening, "825 825 825 000".

27-Mar-19:- 2100 UTC, 5877 kHz, "825 825 825 000", strong signal.

2120 UTC, 5277 kHz, also strong.

3-Apr-19:- 2000 UTC, 8144 kHz, "197 197 197 000", strong.

2020 UTC, 6944 kHz, very strong.

10-Apr-19:- 2000 UTC, 8144 kHz, and 2020 UTC, 6944 kHz, "197 197 197 000".

Others' logs

Wednesday

March 2019

2100z	5877kHz	2120z	5277kHz	2140z	4577kHz	
06/03	825 000					Very strong
13/03	825 000					Very strong
20/03	825 000				[2100z BCQRM2]	Strong
27/03	825 000					Very strong

April 2019

2000z	8144kHz	2020z	6944kHz	2040z	5744kHz	
03/04	197 000					Very strong
10/04	197 000					Very strong
17/04	197 000					Very strong
24/04	197 000					Very strong

Thursday**March 2019**

0530z	6922kHz	0550z	8122kHz	0610z	9322kHz	
07/03	913 000				[0550z Fair, noisy]	Very strong
14/03	913 000				[0550z XJTQRM2]	Very strong
21/03	913 000				[0550z XJTQRM2]	Very strong
28/03	913 000					0530z Very strong, 0550z Fair, noisy

April 2019

0430z	6788kHz	0450z	7488kHz	0510z	8188kHz	
04/04	741 000					Very strong
11/04	741 000					Strong
18/04	741 000					Very strong
25/04	741 000					Very strong

Nothing for he who officially receives and decodes this usually very strong signal. If he's reporting on Brexit to Moscow Central he's probably shot himself with the boredom of it! If his codename is 'Peston' then Moscow Central have probably done it for him!

Friday**March 2019**

1610z	11473kHz	1630z	10173kHz	1650z	9373kHz	
01/03	413 1 35013 540 71					rest unworkable in London. Message by SR, Alabama via Perseus net, Germany:

413 1 35013 540 71
 43712 09388 94161 20055 13516 08770 95848 39244 02872 44748
 21825 20990 41458 62224 09432 21925 28432 19888 10815 19648
 34058 31996 91501 87086 46108 66181 88457 66535 40254 24098
 34462 54932 19418 58537 31663 27920 50180 88177 27566 73732
 99090 25028 67575 20738 54384 53705 22700 06449 33592 53961
 67324 16184 90707 32287 37020 07825 34800 56234 92850 30865
 96191 67607 83354 33308 99430 43314 05066 72081 22551 07301
 75362
 000 000 Courtesy Barry Williams

15/03	413 000					Fair
22/03	413 000					Weak
29/03	413 000				[1630z NRH]	Weak, noisy

April 2018

1510z	12174kHz	1530z	11074kHz	1550z	10274kHz	
12/04	102 000					Weak
19/04	102 000					Weak
26/04	102 000					Weak

Saturday**March 2019**

0900z	11133kHz	0920z	12133kHz	0940z	13433kHz	
09/03	114 000				[0920z only]	Weak
16/03	114 000					Weak
23/03	114 000					Weak
30/03	114 000					Weak

April 2019

0800z	12218kHz	0820z	13418kHz	0840z	14418kHz	
06/04	244 000					Weak
13/04	244 000					Weak
20/04	244 000					Weak
27/04	244 000				[0800z Weak]	Strong

E11 log March/April

4181kHz	1705z	13/03 [395/00] Out 1708z S4		Malc	WED
	1705z	16/03 [392/00] Out 1708z S4		Malc	SAT
	1705z	20/03 [394/00] Out 1708z S4		Malc	WED
	1705z	23/03 [391/00] Out 1708z S4		Malc	SAT
	1705z	27/03 [396/00] Out 1708z S5		Malc	WED
	1705z	30/03 [399/00] Out 1705z S7		Malc	SAT
	1705z	03/04 [395/00] Good		RNGB	WED
	1705z	10/04 [392/00] Out 1708z S5		Malc	WED
	1705z	13/04 [393/00] Out 1703z S3		Malc	SAT
	1705z	17/04 [392/00] Out 1708z S3		Malc	WED
	1705z	20/04 [396/00] Out 1708z S3		Malc	SAT
4505kHz	1930z	09/03 [366/00] Out 1933z S3		Malc, RNGB	SAT
	1930z	10/03 [366/00] Out 1933z S4		Malc	SUN
	1930z	23/03 [363/00] Out 1933z S5		Malc	SAT
	1930z	24/03 [368/00]		RNGB, Malc	SUN
	1930z	30/03 [366/00] Out 1933z S6		Malc	SAT
	1930z	31/02 [366/00] Out 1933z S5		Malc	SUN
	1930z	06/04 [365/00] Out 1933z S5	(Dutch SDR)	Malc	SAT
	1930z	07/04 [360/00] Out 1933z S5		Malc	SUN
	1930z	13/04 [369/00] Out 1933z S7		Malc	SAT
	1930z	14/04 [369/00] Out 1933z S3		Malc	SUN
	1930z	27/04 [368/00] Out 1933z S5		Malc	SAT
5371kHz	0805z	09/03 [310/00] Out 0808z		Malc	SAT
	0805z	10/03 [311/00]		RNGB	SUN
	0805z	23/03 [312/00] Out 0808z S2		Malc	SAT
	0805z	30/03 [315/00] Out 0808z S2		Malc	SAT
	0805z	06/04 [310/00] Out 0808z S2		Malc, RNGB	SAT
	0805z	07/04 [310/00] Out 0808z S2		Malc	SUN
	0805z	13/04 [315/00] Out 0808z S4		Malc	SAT
	0805z	14/04 [310/00] Out 0809z S3		Malc	SUN
	0805z	27/04 [311/00] Out 0808z S2		Malc	SAT
5737kHz	1530z	15/04 [520/00] Out 1533z S5		Malc	MON
	1530z	19/04 [520/00] Out 1533z S2		Malc	FRI
5844khz	1730z	02/03 [406/00]		Barry W	SAT
	1730z	09/03 [408/00] Out 1733z S4		Malc	SAT
	1730z	13/03 [403/00] Out 1733z S5		Malc	WED
	1730z	16/03 [405/00] Out 1733z S5		Malc	SAT
	1730z	20/03 [402/00] Out 1733z S4		Malc, Gary H	WED
	1730z	23/03 [400/00] Out 1733z S5		Malc	SAT
	1730z	03/04 [406/00] Out 1733z S6		Malc	WED
	1730z	06/04 [408/00] Out 1733z S5	(Dutch SDR)	Malc	SAT
	1730z	10/04 [404/00] Out 1733z S7		Malc, Gary H	WED
	1730z	13/04 [402/00] Out 1733z S3		Malc	SAT
	1730z	17/04 [409/00] Out 1733z S5		Malc	WED
	1730z	22/04 [403/00]		Gary H, Malc	SAT
5941kHz	0820z	14/03 [431/00] Out 0823z Good		RNGB, Malc	THU
	0820z	25/03 [438/00] Out 0823z S2		Malc, RNGB	MON
	0820z	28/03 [439/00] Out 0823z S2		Malc	THU
	0820z	11/04 [436/00] Out 0823z S2		Malc, RNGB	THU
	0820z	18/04 [438/00] Out 0823z S2		Malc	THU

6397kHz	1605z	12/03 [231/00]	Gary H, Barry W	TUE
	1605z	17/03 [235/00] Out 1608z S3	Malc	SUN
	1605z	19/03 [233/00] Strong	RNGB	TUE
	1605z	24/03 [231/00] Out 1608z S5	Malc	SUN
	1605z	26/03 [236/00] Out 1608z S5	Malc	TUE
	1605z	31/03 [237/00] Out 1608z S3	Malc	SUN
	1605z	02/04 [233/00]	Gary H, Malc	TUE
	1605z	07/04 [233/00] Out 1628z S5	Malc	SUN
	1605z	16/04 [235/00] Out 1608z S5	Malc	TUE
	1605z	21/04 [237/00]	Gary H	SUN
	1605z	23/04 [231/001] Out 1608z S5	Malc	TUE
6923kHz	1205z	05/03 [464/00]	Ary	TUE
	1205z	19/03 [460/00] Out 1208z S2	Malc	TUE
	1205z	26/03 [469/00] Out 1208z S2	Malc	TUE
	1205z	27/03 [463/00] Out 1208z S2	Malc	WED
	1205z	17/04 [464/00] Out 1208z S2	Malc	WED
	1205z	23/04 [462/00] Out 1208z S2	Malc	TUE
	1205z	24/04 [466/00] Out 1208z S2	Malc	WED
6940kHz	0930z	13/05 [279/00]	Ary	WED
	0930z	14/03 [279/00] Out 0848z S3	Malc, RNGB	THU
	0930z	27/03 [279/00] Out 0933z S2	Malc	WED
	0930z	28/03 [276/00] Out 0933z S3	Malc	THU
	0930z	17/04 [270/00] Out 0933z S2	Malc	WED
	0930z	18/04 [273/00] Out 0933z S2	Malc	THU
	0930z	24/04 [278/00] Out 0933z S2	Malc	WED
	0930z	25/04 [276/00] Out 0933z S2	Malc	THU
7317kHz	1900z	04/03 [641/00] Good	RNGB	MON
	1900z	11/03 [640/00] Out 1903z S5	Malc	MON
	1900z	14/03 [648/00] Out 1903z S3	Malc	THU
	1045z	18/03 [696/00] Out 1048z S2	Malc	MON
	1045z	20/03 [690/00] Out 1048z S3	Malc	WED
	1045z	25/03 [694/00] Out 1048z S2	Malc	MON
	1900z	25/03 [648/00] Out 1903z S6 QRM	Malc, RNGB	MON
	1045z	27/03 [696/00] Out 1048z S2	Malc	WED
	1900z	28/03 [646/00] Out 1903z S5	Malc	THU
	1900z	01/04 [646/00] Out 1903z S5	Malc	MON
	1900z	04/04 [646/00] Out 1903z S5	Malc	THU
	1045z	08/04 [690/00] Out 1048z S2	Malc	MON
	1045z	10/04 [693/00] Out 1048z S2	Malc	WED
	1900z	15/04 [646/00] Out 1903z S3	Malc	MON
	1900z	18/04 [647/00] Out 1903z S3	Malc	THU
	1045z	24/04 [696/00] Out 0933z S2	Malc	WED
	1900z	25/04 [643/00] Out 1903z S5	Malc	THU
7749kHz	1925z	16/04 [558/00]	Ary	TUE
	1925z	18/04 [559/00] Out 1928z S9	Malc	THU
7840kHz	1000z	01/03 [300/00] Fair	RNGB	FRI
	1000z	05/03 [306/00]	RNGB	TUE
	1000z	08/04 [307/00] Out 1003z S3	Malc	FRI
	1000z	12/03 [308/00] Out 1003z S2	Malc	TUE
	1000z	15/03 [302/00] Out 1003z S2 QSB1	Malc, RNGB	FRI
	1000z	22/03 [306/00] Out 1005z S2	Malc, RNGB	FRI
	1000z	12/04 [300/00] Out 1003z S2	Malc	FRI
	1000z	16/04 [305/00]	RNGB	TUE
	1000z	19/04 [308/00] Out 1003z S3	Malc	FRI
	1000z	23/04 [302/00] Out 1003z S2	Malc	TUE
	1000z	26/04 [305/00] Out 1003z S2	Malc	FRI
7864kHz	1730z	07/03 [412/00] Good	dmhz, RNGB	THU
	1730z	14/03 [410/00]	Gary H, Malc	THU
	1730z	28/03 [418/00] Out 1733z S5	Malc	THU
	1730z	04/04 [414/00]	dmhz	THU
	1730z	11/04 [412/00] Out 1733z S3	Malc	THU
	1730z	25/04 [411/00] 733z S4	Malc	THU
8102kHz	0710z	02/03 [491/00] Faulty tx – very broken	RNGB	SAT
	0710z	09/03 [496/00] Out 0713z S3	Malc, RNGB	SAT
	0710z	16/03 [490/00] Out 0713z Good	RNGB, Malc	SAT

	0710z	23/03 [490/00] Good	RNGB	SAT
	0710z	24/03 [498/00] Good	RNGB	SUN
	0710z	06/04 [497/00] Out 0713z S2	Malc	SAT
	0710z	13/04 [495/00] Out 0713z S2	Malc	SAT
	0710z	14/04 [496/00] Out 0713z S2	Malc	SUN
	0710z	27/04 [498/00] Out 0713z S2	Malc	SAT
8180kHz	0700z	05/03 [571/00] Good	RNGB	TUE
	0700z	08/03 [573/00] Good	RNGB	FRI
	0900z	11/03 [530/00] Out 0903z S2	Malc	MON
	0900z	13/03 [530/00] Out 0903z S2	Malc	WED
	0900z	18/03 [538/00] Out 0903z S2	Malc	MON
	0700z	19/03 [576/00] Good	RNGB	TUE
	0900z	20/03 [533/00] Out 0903z S2	Malc, RNGB	WED
	0900z	25/03 [534/00] Out 0903z S2	Malc	MON
	0900z	27/03 [538/00] Out 0903z S2	Malc	WED
	0700z	29/03 [571/00] Good	RNGB	FRI
	0900z	08/04 [536/00] Out 0903z S2	Malc	MON
	0700z	09/04 [571/00] Out 0703z S3	Malc, RNGB	TUE
	0900z	10/04 [538/00] Out 0903z S2	Malc	WED
	0700z	12/04 [576/00] Out 0703z S3	Malc	FRI
	0900z	15/04 [537/00] Out 0903z S2	Malc	MON
	0700z	16/04 [574/00] Out 0703z S2	Malc, RNGB	TUE
	0900z	17/04 [535/00] Out 0903z S2	Malc	WED
	0700z	19/04 [576/00] Out 0703z S2	Malc	FRI
	0900z	22/04 [530/00] Out 0903z S2	Malc	MON
	0700z	23/04 [577/00] Out 0703z S2	Malc	TUE
	0900z	24/04 [537/00] Out 0903z S2	Malc	WED
	0700z	26/04 [576/00] Out 0703z S3	Malc	FRI
8530kHz	1910z	08/03 [611/00] Out 1913z S2	Malc	FRI
	1910z	10/03 [613/00] Out 1913z S3	Malc	SUN
	1910z	17/03 [617/00] Out 1913z S2	Malc	SUN
	1910z	29/03 [616/00] Out 1913z S6	Malc	FRI
	1910z	31/02 [612/00] Out 1913z S3	Malc	SUN
	1910z	07/04 [612/00] Out 1913z S2	Malc	SUN
	1910z	12/04 [611/00] Out 1913z S5	Malc	FRI
	1910z	14/04 [614/00] Out 1913z S3	Malc	SUN
	1910z	19/04 [616/00]	RNGB, Malc	FRI
	1910z	21/04 [611/00] Out 1913z S6	Malc	SUN
8544kHz	1730z	16/03 [405/00] Strong	RNGB	SAT
9963kHz	0715z	12/03 [635/00] Out 0718z Good	RNGB, Malc	TUE
	0715z	19/03 [630/00] Strong	RNGB	TUE
	0715z	26/03 [631/00] Out 0718z S3	Malc	TUE
	0715z	29/03 [637/00] Out 0718z S3	Malc	FRI
	0715z	02/04 [634/00] Good	RNGB	TUE
	0715z	05/04 [631/00]	RNGB	FRI
	0715z	16/04 [635/00] Out 0718z S3	Malc, RNGB	TUE
	0715z	19/04 [639/00] Out 0718z S3	Malc	FRI
	0715z	23/05 [631/00] Out 0718z S3	Malc	TUE
	0715z	26/04 [636/00] Out 0718z S3	Malc	FRI
10213kHz	0745z	04/03 [262/00]	RNGB	MON
	0745z	11/03 [260/00] Out 0748z S6	Malc, RNGB	MON
	0745z	18/03 [262/00] Out 0748z S4	Malc	MON
	0745z	08/04 [266/00] Out 0748z S4	Malc	MON
	0745Z	15/04 [269/00] Strong	RNGB	MON
	0745z	22/04 [261/00] Out 0748z S2	Malc	MON
10246kHz	0845z	05/03 [154/00]	RNGB	TUE
	0845z	07/03 [156/00]	RNGB	THU
10330kHz	1530z	14/03 [264/00]	Gary H, Malc	THU
	1530z	21/03 [268/00]	Gary H, RNGB, Malc	THU
	1530z	11/04 [262/00]	Gary H, Malc	THU
	1530z	18/04 [266/00]	Gary H, Malc	THU
	1530z	25/04 [268/00] Out 1533z S5	Malc	THU
10448kHz	1625z	06/03 [977/00]	Gary H, Malc	WED
	1625z	10/03 [974/001] Out 1628z S2 (Dutch SDR)	Malc	SUN

	1625z	13/03 [977/00] Out 1628z S7		Malc	WED
	1625z	17/03 [970/00] Out 1628z S3		Malc	SUN
	1625z	24/03 [975/00]		Gary H, Malc	SUN
	1625z	03/04 [972/00] Out 1628z S2	(Dutch SDR)	Malc	WED
	1625z	07/04 [974/00] Out 1628z S7		Malc	SUN
	1625z	10/04 [974/00] Out 1628z S3		Malc	WED
	1625z	14/04 [978/00] Strong		RNGB	SUN
	1625z	24/04 [977/00]		Gary H, Malc	WED
10620kHz	1925z	12/03 [550/00] Out 1928z S2	(Dutch SDR)	Malc	TUE
	1925z	14/03 [550/00] Out 1928z S2	(Dutch SDR)	Malc	THU
10800khz	0645z	07/03 [518/00] Weak		RNGB	THU
	1645z	08/03 [332/00]		Barry W	FRI
	1645z	12/03 [330/00]		Gary H	TUE
	0645z	14/03 [519/00] Weak		RNGB	THU
	1645z	14/03 [335/00]		Gary H	THU
	1645z	19/03 [337/00] Out		RNGB	TUE
	1645z	21/03 [331/00]		Gary H, Malc	THU
	0645z	26/03 [517/00]		RNGB	TUE
	0645z	28/03 [515/00]		RNGB	THU
	0645z	02/04 [511/00] Out 0648z S2		Malc	TUE
	1645z	02/04 [333/00] Out 1648z S2		Malc	TUE
	0645z	04/04 [511/00]		RNGB	THU
	1645z	04/04 [332/00] Out 1648z S2	(Dutch SDR)	Malc	THU
	1645z	09/04 [334/00] Out 1648z S2	(Dutch SDR)	Malc	TUE
	1645z	11/04 [334/00] Out 1648z S7		Malc	THU
	0645z	16/04 [518/00] Out 0648z S2		Malc, RNGB	TUE
	0645z	18/04 [519/00] Out 0648z S4		Malc, RNGB	THU
	0645z	23/04 [514/00] Out 0648z S4	(Dutch SDR)	Malc	TUE
	1645z	23/04 [332/00] Out 1648z S2		Malc, RNGB	TUE
	0645z	25/04 [518/00] Out 0648z S3		Malc	THU
	1645z	25/04 [332/00] Out 1648z S5		Malc	THU
12089kHz	0600z	15/03 [180/00]		Ary	THU
12153kHz	0640z	01/04 [941/00] Out 0643z S2		Malc	MON
	0640z	03/04 [941/00] Out 0643z S2	(Dutch SDR)	Malc	WED
	0640z	01/04 [941/00]		RNGB	MON
	0640z	03/04 [941/00]		RNGB	WED
	0640z	10/04 [949/00] Out 0643z S2	(Dutch SDR)	Malc	WED
	0640z	17/04 [949/00] Out 0643z S3		Malc	WED
	0640z	24/04 [944/00] Out 0643z S3		Malc, RNGB	WED
12202kHz	0845z	09/04 [156/00]		Ary	TUE
	0845z	11/04 [159/00] Out 0848z S3		Malc	THU
	0845z	16/04 [155/00] Out 0848z S4		Malc	TUE
	0845z	18/04 [156/00] Out 0848z S3		Malc	THU
13046kHz	1345z	09/03 [915/00] Out 1348z S1		RNGB, Malc	SAT
	1345z	19/03 [910/00] Out 1348z S2		Malc	TUE
	1345z	23/03 [919/00] Out 1348z S5		Malc	SAT
	1345z	26/03 [912/00] Out 1348z S3		Malc	TUE
	1345z	09/04 [914/00] Out 1348z S3		Malc	TUE
	1345z	13/04 [910/00] Out 1348z S2		Malc	SAT
	1345z	16/04 [912/00] Out 1348z S4		Malc	TUE
	1345z	20/04 [917/00] Out 1348z S3		Malc	SAT
	1345z	23/04 [911/00] Out 1348z S2		Malc	TUE
13470kHz	1745z	04/03 [240/00] Very weak		RNGB	MON
	1745z	24/03 [248/00] Out 1748z S2	(Dutch SDR)	Malc	SUN
	1745z	25/03 [245/00] Out 1748z S3	(Dutch SDR)	Malc	MON
	1745z	31/03 [242/00] Weak	(Dutch SDR)	RNGB	SUN
	1745z	31/02 [242/00] Out 1748z S2	(Dutch SDR)	Malc	SUN
	1745z	01/04 [240/00] Out 1748z S2	(Dutch SDR)	Malc	MON
	1745z	15/04 [247/00] Out 1748z S2		Malc	MON
	1745z	21/04 [240/00] Out 1748z S3	(Dutch SDR)	Malc	SUN
	1745z	22/04 [248/00] Out 1748z S2		Malc	MON
13873kHz	1650z	08/03 [927/00] Out 1653z S2	(Dutch SDR)	Malc	FRI
	1650z	10/03 [926/00] Out 1653z S2	(Dutch SDR)	Malc	SUN
	1650z	15/03 [921/00] Out 1653z S3		Malc	FRI

	1650z	17/03 [926/00] Out 1653z S2		Malc	SUN
	1300z	23/03 [586/00] Out 1303z S2		Malc	SAT
	1650z	29/03 [924/00] Out 1653z S3 (Dutch SDR)		Malc	FRI
	1650z	31/03 [927/00] Fair with QSB (Dutch SDR)		RNGB, Malc	SUN
	1300z	04/04 [588/00] Out 1303z S6		Malc	THU
	1300z	06/04 [583/00] Out 1303z S5		Malc	SAT
	1650z	07/04 [922/00] Out 1653z S2		Malc	SUN
	1300z	11/04 [585/00] Out 1303z S3		Malc, RNGB	THU
	1300z	13/04 [583/00] Out 1303z S2		Malc	SAT
	1650z	14/04 [927/00] Out 1653z S2 +QRM		Malc	SUN
	1300z	18/04 [588/00] Out 1303z S3		Malc, RNGB	THU
	1650z	19/04 [919/00] Out 1653z S2 QRM		Malc	FRI
	1300z	20/04 [587/00] Out 1303z S4		Malc	SAT
	1650z	21/04 [929/00] Out 1653z S2 + QRM (Dutch SDR)		Malc	SUN
17410kHz	0745z	20/03 [340/00] Weak (HK SDR)		RNGB	WED
	0745z	22/03 [342/00] (Qatar SDR)		RNGB	FRI
	0745z	27/03 [346/00] Good (HK SDR)		RNGB	WED
	0745z	03/04 [340/00] Weak (HK SDR)		RNGB	WED
	0745z	19/04 [346/00] Fair (HK SDR)		RNGB	FRI
19184kHz	0820z	12/03 [131/00] Good Qatar SDR		RNGB	TUE
	0820z	13/03 [133/00] Good Qatar SDR		RNGB	WED
	0820z	20/03 [133/00]		RNGB	WED
	0820z	09/04 [131/00] Good Qatar SDR		RNGB	TUE
	0820z	16/04 [134/00] Qatar SDR		RNGB	TUE

E11a log March/April

4181kHz	1705z	24/04 [399/33 54487.....09369] Out 1715z S3	Malc	WED
	1705z	27/04 [399/33 54487.....etc] Repeat of Wednesday	Malc	SAT
4505kHz	1930z	16/03 [365/36 08373.....73030] Out 1940z S5	Malc	SAT
	1930z	17/03 [365/36 08373.....73030] Out 1940z S5	Malc	SUN
	1930z	21/04 [369/32 98101.....09064] Out 1940z S6	Malc	SUN
5371kHz	0805z	16/03 [310/33 86873 01944 66580 32884 07945 82632 13977 56890.....46383 78304] Out 0814z	RNGB, Malc	SAT
	0805z	17/03 [310/33 86873.....etc] Repeat of Saturday	Malc	SUN
	0450z	18/03 [418/31 17839 73438 39159 06568 35372 39041 38354.....61663 58389]	Ary	MON
	0805z	20/04 [314/36 49399.....55680] Out 0815z S2 (Dutch SDR)	Malc	SAT
	0805z	21/04 [314/36 49399.....etc] Repeat of Saturday	Malc	SUN
5737kHz	1530z	22/04 [528/39 20640.....77677] Out 1541z S4 (Dutch SDR)	Malc	MON
	1530z	26/04 [528/39 20640.....etc] Repeat of Monday	Malc	FRI
5844kHz	1730z	27/03 [408/32 56407 23847 92995 62051 56518 08261 68511.....21471 60165] Out 1740z S5	Ary, Malc	WED
	1730z	30/03 [408/32 56407.....etc] Repeat of Wednesday	Malc	SAT
	1730z	24/04 [404/33 47498.....64987] Out 1740z S5	Malc	WED
	1730z	27/04 [404/33 47498.....etc] Repeat of Wednesday	Malc	SAT
5941kHz	0820z	18/03 [439/40 23562 55953 28306 98359 17895 57296 13191.....49620 03779] Out 0831z Good	RNGB, Malc	MON
	0820z	21/02 [439/40 23562.....etc] Repeat of Monday	Malc	THU
	0820z	01/04 [436/33 05519 43750 16309 60988 81905 15608 32784.....97680 96782] Out 0830z S2	RNGB, Malc	MON
	0820z	04/04 [436/33 05519.....etc] Repeat of Monday	Malc	THU
	0820z	25/04 [432/30 96379.....62896] Out 0829z S3 (Dutch SDR)	Malc	THU
6397kHz	1605z	05/03 [233/35 60696 37011 41005 06518 97378 04362 37346 60897.....24792 59796] Good	RNGB	TUE
	1605z	10/03 [233/35 60696.....etc] Repeat of Tuesday	Malc	SUN
	1605z	09/04 [237/31 47459.....48959] Out 1614z S5	Malc	TUE
	1605z	14/04 [237/37 47459 79964 02720 15649 49171 30316 77976.....64058 48959 48595] 1614z S3	RNGB, Malc	SUN
6923kHz	1205z	12/03 [463/36 90763 44484 35860 98410 12442 79765 51587 86647.....09025 60359] Out 1216z	RNGB, Malc	TUE
	1205z	13/03 [463/36 90763.....etc] Repeat of Tuesday S2	Malc	WED
	1205z	02/04 [468/47 87877.....73803] Out 1217z S2	Malc	TUE
	1205z	03/04 [467/47 87887.....73803] Out 1217z S2	Malc	WED
	1205z	09/04 [461/39 21254.....91695] Out 1216z S3	Malc	TUE
	1205z	10/04 [461/39 21254.....etc] Repeat of Wednesday	Malc	WED
6940khz	0930z	20/03 [273/39 56943.....39868] Out 0941z S3	Malc	WED
	0930z	21/03 [273/39 56943.....etc] Repeat of Wednesday	Malc	THU

	0930z	03/04 [271/36 40872 68840 07927 73271 05414 97258 23926 87652.....65969]	RNGB	WED
	0930z	04/04 [271/36 40872.....65969] Out 0940z S2	Malc	THU
7317kHz	1045z	13/03 [690/28 73486 22834 14546 83470 05229 29630 75921.....93743 24538] Out 1053z Good	RNGB, Malc	WED
	1900z	18/03 [641/33 33487 29533 34062 50158 65180 04889 65801.....74947 71727] Strong	RNGB, Malc	MON
	1900z	21/03 [641/33 33487.....etc] Repeat of Monday	Malc	THU
	1045z	01/04 [694/30 52293.....11556] Out 1054z S2	Malc	MON
	1900z	08/04 [647/40 68293.....09304] Out 1911z S5	Malc	MON
	1045z	15/04 [693/37 26210.....26019] Out 1055z S2	Malc	MON
	1045z	17/04 [693/37 26210.....etc] Repeat of Monday	Malc	WED
7749kHz	1925z	23/04 [557/36 55168.....65727] Out 1935z S6	Malc	TUE
	1925z	25/04 [557/36 55168.....etc] Repeat of Tuesday 1935z S6	Malc	THU
7840kHz	1000z	26/03 [306/38 14179.....56253] Out 1011z S2	Malc	TUE
	1000z	29/03 [306/38 14179.....etc] Repeat of Tuesday	Malc	FRI
	1000z	02/04 [305/22 94588 69617 53636 14337 45148 35830 55892.....35497 95507] Out 1007z S2	RNGB, Malc	TUE
7864kHz	1730z	21/03 [418/31 17839 73438 39159 06568 36372 39041 38354 01294.....61663 58389]	RNGB, Malc	THU
	1730z	18/04 [418/34 65715.....24241] Out 1740z S2	Malc	THU
8102kHz	0710z	30/03 [492/31 26727.....18794] Out 0719z S3	Malc	SAT
	0710z	21/04 [498/35 83010.....02869] Out 0720z S2	Malc	SUN
8180kHz	0900z	04/03 [531/36 94653 11988 76021 40080 04940 10117 46584 89996.....33870 91715] Fair	RNGB	MON
	0700z	12/03 [577/39 95641 91686 98756 17649 42503 36112 03549 63452.....09913 14631]	RNGB	TUE
	0900z	01/04 [532/37 29248.....9862] Out 0910z S3	Malc	MON
	0700z	02/04 [579/35 87333.....72429] Out 0710z S2	Malc	TUE
	0900z	03/04 [532/37 29248 23543 72440 94018 26851 30242 99491 31193.....39176 98627]	RNGB	WED
	0700z	05/04 [579/35 87333 85517 67876 04784 89534 69003 26788 88784.....43880 72429]	RNGB	FRI
8530kHz	1910z	22/03 [616/35 23486.....58737] Out 1920z S3	Malc	FRI
	1910z	24/03 [616/35 23486.....etc] Repeat of Friday	Malc	SUN
9963kHz	0715z	05/03 [631/35 90895 80876 45827 33800 40486 45683 13589.....14768 01987] Fair	RNGB	TUE
	0715z	09/04 [636/36 44951 03425 32045 07721 42140 73437 31367.....188654 83766] Out 0725z S2	RNGB, Malc	TUE
	0715z	12/04 [636/36 44951.....etc] Repeat of Tuesday	Malc	FRI
10213kHz	0745z	25/03 [267/32 32630.....83229] Out 0748z S5	Malc	MON
	0745z	01/04 [269/37 06609 22127 11924 86200 90153 73091 44656.....14336 63947] Out 0755z S5	RNGB, Malc	MON
10330kHz	1530z	04/04 [269/37 06609.....63947] Out 1546z S6	Malc	THU
10448kHz	1625z	27/03 [974/32 03529.....75584] Out 1628z S5	Malc	WED
	1625z	31/03 [974/32 03529.....etc] repeat of Wednesday	Malc	SUN
	1625z	17/04 [976/38 45139.....53658] Out 1628z S5	Malc	WED
	1625z	21/04 [976/38 45139 42634 16912 12465 43240 51515 39392 82209.....46472 53658]	Gary H, Malc	SUN
10620kHz	1925z	26/03 [557/30 59958 -5147 49586 70240 03942.....97565 41049] Missing digits – faulty tx	Ary, Malc	TUE
	1925z	28/03 [557/30 59958.....etc] repeat of Tuesday	Malc	THU
	1925z	02/04 [550/32 54912.....36425] Out 1935z S2 (Dutch SDR)	Malc	TUE
	1925z	04/04 [550/32 54912.....etc] repeat of Tuesday	Malc	THU
10800kHz	0645z	19/03 [514/32 32079 10534 87207 52140 71369 02509 92720.....08591 67245] Twente SDR	RNGB	TUE
	1645z	26/03 [335/40 01515 78571 30375 05296 0730999776] Out 1651z S2	Gary H, Malc	TUE
	1645z	28/03 [335/40 01515.....etc] Repeat of Tuesday	Gary H, Malc	THU
	0645z	09/04 [515/35 72745 80818 70106 39487 09835 93771 96503.....48898 48637] Out 0655z S2	RNGB, Malc	TUE
	0645z	11/04 [515/35 72745.....etc] Repeat of Tuesday	Malc	THU
	1645z	16/04 [335/34 98308 19882 15852 98493 82133 54887 75577 92653.....76702 59196] Out 1648z	Malc, RNGB	TUE
	1645z	18/04 [335/34 98308.....etc] Repeat of Tuesday	Gary H	THU
12153kHz	0640z	08/04 [949/28.....ATTENTION too weak to copy msg]	Malc	MON
	0640z	10/04 [949/28 78278 95462 57988 75763 69303 93845 74238 14297 31149.....62419 38170]	RNGB	TUE
12202kHz	0845z	23/04 [159/32 63807.....23779] Out 0854z S3	Malc	TUE
	0845z	25/04 [159/32 63807.....etc] Repeat of Tuesday S3	Malc	THU
13046kHz	1345z	12/03 [911/37 20105.....61137] Out 1356z S2	Malc	TUE
	1345z	16/03 [911/37 20105.....etc] Repeat of Tuesday	Malc	SAT
	1345z	02/04 [915/40 83420.....52014] Out 1356z S2	Malc	TUE
	1345z	06/04 [915/40 83420.....etc] Repeat of Tuesday S5	Malc	SAT

13470kHz 1745z	08/04 [246/39 40946.....69489] Out 1755z S2	(Dutch SDR)	Malc	MON
13873kHz 1650z	22/03 [925/37 92423.....57963] Out 1701z S3	(Dutch SDR)	Malc	FRI
1650z	24/03 [925/37 92423.....etc] Repeat of Friday		Malc	SUN
1300z	25/04 [581/36 79192.....96051] Out 1303z S3		Malc	THU
1650z	26/04 [924/37.....ATTENTION too weak to copy msg due QRM]		Malc	FRI

E17z

March 2019

Thursday

0800z	14260kHz	0810z	12930kHz	
14/03	674 809 5 ...			0800z NRH; 0810z Unworkable
21/03	674 235 8 07931 98755 84638 45352 64655 58202 44206 29464 235 8 00000			Weak (Dutch SDR)
28/03	NRH			[tnx M8]

April 2019

04/04	674 933 5 04049 30193 55678 42961 86336 933 5 00000	[0800z Unworkable Dutch SDR]	Weak
11/04	674 932 5 04049 30193 53678 42961 86336 932 5 00000		Weak
18/04	674 931 5 34917 36991 38643 30996 35333 931 5 00000		Weak
25/04	674 931 5 34917 36991 38643 30996 35333 931 5 00000	[0810z Dutch SDR]	Weak

E25

6140kHz1441z	04/03	Repeating message	Danix	MON
111 MSG 4512 9231 9021 9961 8243 3127 4803 1732 8935 6188 2284 9231 EOM EOT				

G06

PoSW's logs:

Second + Fourth Thursdays in the Month 1830 UTC Schedule:-

28-Mar-19:- 5940 kHz, start-up times for these schedules are purely nominal, actually began about thirty seconds before the half-hour, calling "579", DK/GC "969 969 47 47", good signal, strong broadcast station on the LF side removed by using the RX in USB mode.

11-Apr-19:- 5934 kHz, call "579", DK/GC "968 968 43 43", strong signal, ended after 1841 UTC, computer shut-down sound heard.

25-Apr-19:- 5934 kHz, call "579", DK/GC "968 968 43 43".

Friday 1930 UTC Schedule Following Second + Fourth Thursdays in the Month:-

15-Mar-19:- 5442 kHz, started the best part of a minute before the half-hour, call "947", DK/GC "967 967 42 42", strong signal.

Some kind of pre-transmission warm-up routine was in progress when 5442 was checked at around 1907 UTC with, "111 111 111 00000".

29-Mar-19:- 5442 kHz, "947", DK/GC "969 969 47 47", strong.

12-Apr-19:- 5442 kHz, call "947", DK/GC "963 963 43 43", strong signal

First + Second Mondays in the Month 1700 + 1800 UTC Schedule:-

11-Mar-19:- 1701 UTC, 4792 kHz, found in progress with, "145 145 145 00000", weak signal, voice stopped 1703:35s UTC approx.

1759:20s UTC, 4877 kHz, second sending, much stronger signal, carrier with background noise had been noted at around 1755 UTC. Voice stopped 1803:30s, computer shut-down sound heard shortly after.

1-Apr-19:- 1700 UTC, 4792 kHz, in "145 145 145 00000", S8, had started when tuned in, voice stopped 1703:20s UTC.

1759:15s UTC, 4877 kHz, strong signal, well over the "9".

Others' logs:

March/April 2019

Monday

0759z 6810kHz

18/03 329 00000 Weak

01/04 329 00000 Windows shut down sound Ary

15/04 329 000 Weak

1700z 4792kHz 1800z 4877kHz

04/03 145 00000 Weak

11/03 145 00000 Weak

01/04 145 00000; At 1705 111 00000 Ary

01/04 145 00000 Windows shut down sound; Previously 1708z 111 000; 1749z Windows sound, then 11 Ary

08/04 145 000 Weak

Wednesday

March/April 2019

1200z 5234kHz 1300z 5412kHz

06/03 145 00000 [at 1205z 879 0000] Ary

13/03 145 00000 Weak

03/04 145 00000 Weak

10/04 NRH

Thursday

March 2019

Nil Reports

April 2019

1300z 4598kHz

04/04 329 00000 Weak(Dutch SDR)

1830z 5934kHz 5940kHz

5940kHz1830z 28/03 [579 967 47 4306728935 967 47 00000]1842z S5 M8 THR (missed start, moved due QRM on 5934) M8 THU

5934kHz1835z 28/03 [111 111 111 000 000 000] M8 THR

11/04 579 968 43 43257 ... 36125 968 43 00000 Weak

5186kHz2030z 18/04 891 472 52 12265 ... 95732 472 52 00000 Old E06 msg HFD/Ary THU

891 472 52
12265 10965 47839 38654 84677 93453 62217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732 472 52 00000 Courtesy Ary

25/04 579 968 43 43057 ... 36125 579 43 00000 Weak

G06 continued:

Friday

March 2019

1930z 5442kHz

29/03	947 969 47 43067 ... 28935 969 47 00000	Fair
12/04	947 968 43 43057 ... 36125 968 43 00000	Weak
26/04	947 968 43 43057 ... 36125 968 43 00000	Fair

S06

S06 **March 2019 log:**

Daily Mon- Fri 0400z 15721kHz No reports

Thursdays	0830z	19415kHz	0930z	16268kHz
14/03	'842' 936 44 43848 97042 18011 62137 25585 13957 21778 67084 31565 03497 34764 93882 52154 25668 72885 76584 04956 80176 68147 17580 88708 69681 53651 56363 45883 06505 65877 24729 57396 79980 50198 18078 17904 26638 80554 37524 65087 70410 29219 82495 61387 25041 47602 98502 936 44 00000			
21/03	'842' 507 39 27418 48300 07558 77191 92651 84143 26367 55283 83688 44075 59044 30154 47397 69068 14586 52427 40095 31691 85783 10845 04390 14501 07959 69687 75042 33061 42797 31684 12252 96167 48208 31095 85836 20461 20172 86663 58721 41632 17488 507 39 00000			
28/03	'842' 916 43 81710 63828 55177 93500 06798 75646 26569 13802 34289 89432 09074 53864 70643 43114 95528 68872 21738 90861 55694 77126 01607 90511 92101 33058 66268 16472 23351 37454 33595 02809 18282 02073 75154 46194 29468 10847 90953 23404 99457 44851 03042 03056 38209 916 43 00000			

Fridays (1st & 3rd)	2000z	8191khz	2100z	5943kHz
01/03	'627' 00000			
15/03	'627' 00000			

Other transmissions:

	1300z	10755kHz	1330z	9073kHz
09/03	'480' 136 45 50135 80378 77662 36926 77384 32258 43795 81190 22191 26184 55053 99625 71339 69531 12708 92028 19160 26665 57696 44576 21605 59812 38872 29052 63405 35848 23128 89060 02032 01790 18411 66539 17503 89817 46338 63102 37871 29829 19860 90023 39302 58963.... Lost last 3 groups			Saturday
16/03	'480' 795 42 49563 01154 35760 43827 70133 41841 91351 23807 46730 26195 36508 65502 07278 88195 63001 89482 40690 02059 14403 02084 54905 99393 82853 77357 69779 24274 23272 32630 13025 36453 01089 48475 62523 89342 52755 47781 00930 72731 53277 31812 31821 27269 795 42 00000			Saturday
23/03	'480' 612 43 73995 85328 87650 23576 55716 52066 01630 66200 57401 84853 06773 98198 03406 11905 45671 09335 66502 84676 22763 63948 35769 95824 79412 98651 94441 68080 27822 77305 23843 95883 08867 73626 67677 92924 75241 15470 32175 64478 75710 14096 55206 60429 13963 612 43 00000			
30/03	'480' 953 44 02233 32666 02585 01921 66086 88729 54680 04965 79335 25984 70541 92449 13303 85017 16590 36384 51092 13958 39941 74423 30007 61753 67546 19795 69197 29868 40529 18027 92425 68208 48133 98220 41359 58310 86475 50996 72436 47109 34818 96901 82515 27048 56151 54890 953 44 00000			

S06s **March 2019 log:**

Monday

4th/11th	0630/0640z	22185/20050	'524' 893 6 02039 43966 49821 39056 31348 99724 893
18th/25th			'524' 986 7 37867 86001 40275 44333 31502 33886 33347
4th/11th	0830/0840z	9220/8270	'371' 429 5 33699 39998 30667 35947 83964
18th/25th			'371' 920 5 28548 59014 32424 75078 97520
4th/11th	0900/0910z	14580/13165	'872' 430 5 40774 45983 48882 31151 32860
18th/25th			'872' 940 5 34242 83255 55935 60494 93543
11th	1300/1310z	9145/11460	'831' 476 5 43334 30147 30494 43014 81051
18th/25th			'831' 960 5 88620 58069 61732 74537 57440

Tuesday

5th/12th	0600/0610z	15855/16485	‘438’ 261 5 46544 34612 43306 34498 33860
19th/26th			‘438’ 501 6 46062 68672 97478 39685 30485 96632
5th/12th	0700/0710z	5760/6930	‘374’ 219 5 44475 30322 36034 45445 44008
19th/26th			‘374’ 598 6 52401 63919 92699 14600 74248 48754
5th/12th	0730/0740z	7425/11560	‘427’ 560 8 30233 36973 38084 38836 32441 48658 48114 54054
19th/26th			‘427’ 958 6 99630 46280 33187 33334 39352 39342
5th/12th	0800/0810z	11635/10420	‘352’ 416 7 43753 32543 40936 36892 45221 43796 32860
19th/26th			‘352’ 914 6 02883 49385 41770 84354 32977 68679
5th/12th	1000/1010z	6410/7340	‘893’ 456 7 37218 32079 40063 40372 36343 33365 97541
19th/26th			‘893’ 264 5 95639 86212 43708 32347 41326
5th/12th	1100/1110z	6190/7230	‘754’ 816 9 30147 30797 43014 81051 46544 34612 43306 34498 33860
19th/26th			‘754’ 213 6 31298 56800 62795 74228 97511 82110
5th/12th	1500/1510z	6464/7242	‘537’ 408 6 33760 46632 30233 38084 38836 36973
19th/26th			‘537’ 840 6 38611 36998 40613 89786 32235 40275

Wednesday

6th/13th	0820/0830z	8630/9255	‘471’ 980 5 28548 59014 32424 75078 97520
20th/27th			‘471’ 985 6 33640 38293 43330 32403 88443 36773
6th/13th	0830/0840z	11530/12140	‘745’ 830 6 46062 68672 97478 39685 30485 99632
20th/27th			‘745’ 986 10 38549 86184 47321 89503 37671 30093 33625 44833 41607 36112
6th/13th	0830/0840z	9082/9952	‘464’ 921 5 34242 83255 55945 60494 93543
20th/27th			‘464’ 975 8 41385 36362 43010 33683 32463 30310 34406 42143
6th/13th	1000/1010z	13365/14505	‘729’ 805 6 52401 63919 92699 14600 74248 48754
20th/27th			‘729’ 485 6 31467 33351 43533 35211 35211 33212

Thursday

7th/14th (E17z)	0800/0810z	14260/12930	‘674’ 809 5 06039 70038 95962 77536 31288
21st/28th			‘674’ 235 8 07931 98755 84638 45752 64655 58202 44206 29464
7th/14th	0930/0940z	9081/10514	‘314’ 967 5 30596 22978 33133 57605 33882
21st/28th			‘314’ 980 5 55570 95638 45555 54456 84354
7th/14th	1200/1210z	12415/14212	‘425’ 907 6 16015 29043 16098 02066 04063 25031
21st/28th			‘425’ 879 6 07931 98755 84638 45752 64644 48646

Friday

1st/8th	0900/0910z	5744/6524	‘624’ 819 5 32842 30003 34053 30738 56864
15th/22nd			‘624’ 901 5 07931 98755 84638 35752 64655
1st/8th	0930/0940z	12140/13515	‘516’ 243 7 37218 32079 40064 40372 36343 33365 97541
15th/22nd			‘516’ 407 8 12443 38625 89531 52814 95941 64155 50525 02465

Saturday

2nd	0800/0810z	10350/8520	‘254’ 908 6 65906 66610 20336 17301 88554 82045
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With thanks to RNGB, Malc, Ary, HfD

S06 log April 2019

Daily Mon- Fri 0400z 15721kHz No reports

Thursdays

	0830z	19078kHz	0930z	16268kHz
18/04	‘842’ 167 32 61179 94681 38576 14017 66292 04237 07765 74330 76334 79903 28910 71770 10295 24419 29649 89231 81154 70246 85074 40961 29379 40771 92430 90066 29155 75271 64810 60241 65832 09845 04443 46436 167 32 00000]			0940z
25/04	‘842’ 509 43 56129 82705 92874 45396 17714 59292 40482 48664 94462 41483 34606 54804 76097 46027 47689 14521 58594 40095 35992 96126 18550 56829 91071 61681 62629 86372 22703 30345 13063 47079 33675 46114 15111 66592 43906 91152 77436 27460 37314 18884 81329 57005 29875 509 43 00000]			0941z

Fridays (1st & 3rd)

	1900z	8191khz	2000z	5943kHz
05/04	‘627’ 00000			
19/04	‘627’ 00000			

Other transmissions:

	0930z	13985kHz	1000z	11128khz
21/04	‘480’ 627 43 99625 71339 69531 12708 92028 19160 26665 57696 44576 21605 38872 29052 63405 35848 23128 89060 02032 01790 18411 66539 89817 46338 63102 37871 29829 19860 90023 39302 58963 10418 46472 76509 47464 91755 34140 31170 87099 87476 74804 95315 02521 55044 77254 627 43 00000 627 43 00000]		0942z S2	Malc SUN

S06S April log:

Monday

1st/8th	0630/0640z	22185/20050	‘524’ 970 6 32407 39976 43843 39801 35875 34806
15th/22nd			‘524’ 873 6 88146 57856 98835 46186 16945 80744
1st/8th	0830/0840z	9220/8270	‘371’ 984 5 36806 37188 48254 44053 33023
15th/22nd			‘371’ 289 5 01405 15003 23457 60583 54545
1st/8th	0900/0910z	14580/13165	‘872’ 913 5 40774 43983 48882 31151 32860
15th/22nd			‘872’ 904 5 47665 94092 48521 63888 92606
11th	1300/1310z	9145/11460	‘831’ 907 5 33365 97541 84517 48694 47423
15th/22nd			‘831’ 247 6 21767 53672 11834 81022 36903 41412

Tuesday

2nd/9th	0600/0610z	15855/16485	‘438’ 951 6 89762 42149 46198 36148 34433 36421
16th/23rd			‘438’ 210 5 46062 68672 97478 39685 30485
2nd/9th	0700/0710z	5760/6930	‘374’ 859 6 40639 33180 48007 37230 46446 43475
16th/23rd			‘374’ 581 6 29049 37562 09225 30711 96782 39557
2nd/9th	0730/0740z	7425/11560	‘427’ 850 6 32617 86067 25487 44036 36806 37188
16th/23rd			‘427’ 893 5 16091 98335 20107 46692 39225
2nd/9th	0800/0810z	11635/10420	‘352’ 409 6 38084 32030 34002 36870 39553 35530
16th/23rd			‘352’ 871 6 42613 47545 24535 49598 08142 53225
2nd/9th	1000/1010z	6410/7340	‘893’ 465 7 47552 43630 40846 30519 33363 32521 39131
16th/23rd			‘893’ 546 7 84523 60542 61462 84040 39493 91458 83723
2nd/9th	1100/1110z	6190/7230	‘754’ 931 6 46632 35401 34072 83030 32154 89762
16th/23rd			‘754’ 802 6 87655 75855 07443 51240 62434 54159
2nd/9th	1500/1510z	6464/7242	‘537’ 420 6 30588 36112 38323 45445 44008 38453
16th/23rd			‘537’ 401 6 42990 33000 32968 35222 36880 22582

Wednesday

3rd/10th	0820/0830z	8630/9255	‘471’ 471 5 369124 46467 36973 37967 42149
17th/24th			‘471’ 208 5 37830 31641 35401 34042 84574
3rd/10th	0830/0840z	11530/12140	‘745’ 923 6 44475 30322 36034 45445 44008 38453
17th/24th			‘745’ 201 6 40244 36012 38323 47552 43630 40846
3rd/10th	0830/0840z	9082/9952	‘464’ 912 5 40639 33180 48007 37230 45231
17th/24th			‘464’ 928 5 85518 83939 48340 30054 40909
3rd/10th	1000/1010z	13365/14505	‘729’ 804 5 43334 30147 30494 43014 36892
17th/24th			‘729’ 810 5 32517 31641 35610 34072 83060

Thursday

4th/11th (E17z)	0800/0810z	14260/12930	‘674’ 932 5 04049 30193 55678 42961 86336
18th/25th			‘674’ 931 5 34917 36991 38643 30996 35333
4th/11th	0930/0940z	9081/10514	‘314’ 876 5 98202 49075 42467 89331 28922
18th/25th			‘314’ 826 5 62725 14535 58231 53602 28014
4th/11th	1200/1210z	12415/14212	‘425’ 893 6 37184 36129 22892 83322 85246 33529
18th/25th			‘425’ 913 6 38030 32030 34002 36870 39553 35530

Friday

5th/12th	0900/0910z	5744/6524	‘624’ 810 5 36194 36107 34650 43773 46792
19th/26th			‘624’ 983 5 46062 68672 97478 39685 30485
5th/12th	0930/0940z	12140/13515	‘516’ 937 8 85518 83939 78340 30054 40909 39394 35083 42571
19th/26th			‘516’ 834 7 88620 68069 61732 74537 57440 10597 23521

Saturday

6th	0800/0810z	10350/8520	‘254’ 873 6 31315 36184 36194 37650 43773 46793
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With thanks to RRGB, Malc, Ary, HfD

PoSW's Logs:

S06:-

First + Third Fridays in the Month 2000 + 2100 UTC Schedule:-

1-Mar-19:- 2102 UTC, 5943 kHz, must be the second sending, found in progress about half way through with, “627 627 627 00000”. First sending at 2000z must be on a higher frequency.

15-Mar-19:- 2000 UTC, 8191 kHz, “627 627 627 00000”, peaking S7 with deep fading.
2100 UTC, 5943 kHz, weaker, S5 at best.

In the month of April this schedule shifted by one hour, but since with the start of British Summer Time and the clocks moving forward by one hour it showed up at the same local times:-

5-Apr-19:- 1900 UTC, 8191 kHz, and 2000 UTC, 5943 kHz, both around S5, not too strong,
“627 627 627 00000”.

S06s:-

The expected seasonal changes of frequency took place in March, some of the stronger transmissions heard from S06s over the last couple of months:-

Monday 0830 + 0840 UTC Schedule, Call "371":-

18-Mar-19:- 0830 UTC, 9220 kHz, weak signal, DK/GC "920 920 5 5", "28548 59014 32424 75078 97520".

0840 UTC, 8270 kHz, second sending, stronger.

25-Mar-19:- 0830 UTC, 9220 kHz, "920 920 5 5" and 5Fs as on the 18th, S5.

0840 UTC, 8270 kHz, stronger, S8.

1-Apr-19:- 0830 UTC, 9220 kHz, DK/GC "984 984 5 5", peaking S9 at times, "36806 37188 48254 44053, 33023".

0840 UTC, 8270 kHz, slightly weaker.

Tuesday 0730 + 0740 UTC Schedule, Call "427":-

5-Mar-19:- 0730 UTC, 7425 kHz, DK/GC "560 560 8 8", "30233 36973 38084 38836 32441 48658 48114 54054".

0740 UTC, 11560 kHz, second sending, both transmissions indicating around S6 to S7.

19-Mar-19:- 0730 UTC, 7425 kHz, peaking S9, DK/GC "958 958 6 6", "99630 46280 33187 33334 39352 39342".

0740 UTC, 11560 kHz, over S9.

26-Mar-19:- 0730 UTC, 7425 kHz, "958 958 6 6", same 5Fs as on the 19th, good signal.

0740 UTC, 11560 kHz, very strong.

2-Apr-19:- 0730 UTC, 7425 kHz, DK/GC "850 850 6 6", strong signal, "32617 86067 25487 44036 36806 37188".

0740 UTC, 11560 kHz, also strong.

23-Apr-19:- 0730 UTC, 7425 kHz, "893 893 5 5", S9 with QSB, "16091 98335 20107 46692 39225".

0740 UTC, 11560 kHz, peaking over S9.

Wednesday 0830 + 0840 UTC Schedule, Call "745":-

6-Mar-19:- 0830 UTC, 11530 kHz, DK/GC "830 830 6 6", over S9, weaker broadcast station heard underneath, "46062 68672 97478 39685 30485 99632".

0840 UTC, 12140 kHz, very strong signal.

20-Mar-19:- 0830 UTC, 11530 kHz, DK/GC "986 986 10 10" - an unusually high group count, don't recall a message of ten 5F groups before,

"38549 86184 47321 89503 37671 30093 33625 44833 41607 36112", strong signal.

0841:50s approx, started late, 12140 kHz, second sending, strong signal.

3-Apr-19:- 0830 UTC, 11530 kHz, DK/GC "923 923 6 6", peaking S9 but fading down to much weaker at times, "44475 30322 36034 45445 44008 38453".

0840 UTC, 12140 kHz, strong signal.

10-Apr-19:- 0830 UTC, 11530 kHz, signal up and down, "923 923 6 6", and 5Fs as on 3-April.

0840 UTC, 12140 kHz, S9+, very strong.

17-Apr-19:- 0830 UTC, 11530 kHz, DK/GC "201 201 6 6", strong signal, "40244 36012 38323 47552 43630 40846".

0840 UTC, 12140 kHz, very strong.

24-Apr-19:- 0830 UTC, 11530 kHz, strong carrier on frequency over-riding weaker broadcast station but no voice heard – at least not in the three minutes or so that monitoring was maintained; carrier gone when checked just after 0837 UTC. No problems with the second sending:-

0840 UTC, 12140 kHz, DK/GC "201 201 6 6", very strong signal, "40244 36012 38323 47552 43630 40846".

Wednesday 1000 + 1010 UTC Schedule, Call "729":-

6-Mar-19:- 1000 UTC, 13365 kHz, voice started about 30 seconds past the hour - 10 or 15 seconds is more usual – break in transmission for a few seconds around 1002z. DK/GC "805 805 6 6",

"52401 63919 92699 14600 74248 48754", S7 to S8.

1010 UTC, 14505 kHz, second sending, much weaker signal.

20-Mar-19:- 1000 UTC, 13365 kHz, DK/GC "485 485 6 6", S7 with QSB, "31467 33351 43533 35211 35211 33212", 5F groups four and five were the same – unusual if I heard it correctly.

1010 UTC, 14505 kHz, very weak.

10-Apr-19:- 1000 UTC, 13365 kHz, DK/GC "804 804 5 5", weak at first but came up stronger by 1003 UTC, "43334 30147 30494 43014 36892".

1010 UTC, 14505 kHz, weak but clear.

Friday 0930 + 0940 UTC Schedule, Call “516”:-

1-Mar-19:- 0930 UTC, 12140 kHz, DK/GC “243 243 7 7”, “37218 32079 40064 40372 36343 33365 97541”, strong signal.
0940 UTC, 13515 kHz, much weaker.

15-Mar-19:- 0930 UTC, 12140 kHz, DK/GC “407 407 8 8”, S9 with QSB, “12443 38625 89531 52814 95941 64155 50525 02465”.
0940 UTC, 13515 kHz, second sending weaker, interference from a rapidly swept carrier.

22-Mar-19:- 0930 UTC, 12140 kHz, DK/GC “407 407 8 8” and 5Fs as on the 15th, very strong signal.
0940 UTC, 13515 kHz, over S9.

12-Apr-19:- 0930 UTC, 12140 kHz, DK/GC “937 937 8 8”, “85518 83939 78340 30054 40909 39394 35083 42571”, S5 to S6 at best.
0940 UTC, 13515 kHz, weak, interference from a rapidly swept carrier which resides here.

First Saturday in the Month 0800 + 0810 UTC Schedule, Call “254”:-

2-Mar-19:- 0800 UTC, 10350 kHz, started off around a “5” on the S-meter, became weaker sinking into the noise, unreadable.
0810 UTC, 8520 kHz, second sending much better copy, DK/GC “908 908 6 6”, “65906 66610 20336 17301 88554 82045”.

6-Apr-19:- 0800 UTC, 10350 kHz, very weak again, unreadable.
0810 UTC, 8520 kHz, stronger, DK/GC “873 873 6 6”, “31315 36184 36194 37650 43773 46793”.

S11a log March/April

4505kHz	0915z	12/04 [482/00]	RNGB	FRI
5371kHz	0455z	19/03 [325/31 89066 03027 73871 17493 08299 74381 42971 71596.....11810 98827]	Ary	TUE
6433kHz	1100z	15/03 [370/00] Konyetz 1103z S2	Malc	FRI
	1100z	20/03 [378/00] Konyetz 1103z S3	Malc, RNGB	WED
	1100z	22/03 [379/00] Konyetz 1103z S3	Malc, RNGB	FRI
	1100z	27/03 [378/00] Konyetz 1103z S5	Malc	WED
	1100z	03/04 [378/34 89727.....35869] Konyetz 1111z S3	Malc	WED
	1100z	10/04 [377/00] Konyetz 1103z S3	Malc	WED
	1100z	12/04 [377/00] Konyetz 1103z S3	Malc	FRI
	1100z	17/04 [372/00] Konyetz 1103z S3	Malc	WED
	1100z	19/04 [370/00]	RNGB	FRI
	1100z	24/04 [371/00] Konyetz 1103z S3	Malc	WED
	1100z	26/04 [378/00] Konyetz 1103z S3	Malc	FRI
7469kHz	1020z	01/03 [425/00] Good	RNGB	FRI
	1020z	05/03 [429/38 25582 42190 93301 26863 28713 66520 88651 82579.....06940 01141]	RNGB	TUE
	1020z	08/03 [429/38 25582.....01141] Konyetz 1032z S3	Malc	FRI
	1020z	12/03 [421/00]	RNGB, Malc	TUE
	1020z	15/03 [424/00] Konyetz 1023z S3	Malc, RNGB	FRI
	1020z	19/03 [424/00] Konyetz 1023z S3	Malc, RNGB	TUE
	1020z	22/03 [425/00] Konyetz 1023z S3	Malc, RNGB	FRI
	1020z	26/03 [421/00] Konyetz 1023z S3	Malc	TUE
	1020z	29/03 [425/00] Konyetz 1023z S2	Malc	FRI
	1020z	02/04 [424/37 67570 53267 09368 47977 02256 50107 08358.....10394 67997]	RNGB, Malc	TUE
	1020z	12/04 [421/00] Konyetz 1023z S2	Malc	FRI
	1020z	23/04 [422/00] Konyetz 1023z S2	Malc	TUE
	1020z	26/04 [422/00] Konyetz1023z S2	Malc	FRI
10213kHz	1850z	09/03 [281/00] Konyetz 1853z S2	Malc	SAT
	1850z	16/03 [280/31 91822.....78993] Konyetz 1900z S4	Malc	SAT
	1850z	20/03 [282/00] Konyetz 1853z S2	Malc	WED
	1850z	23/03 [280/00] Konyetz 1853z S2	Malc	SAT
	1850z	27/03 [285/00] Konyetz 1853z S2	Malc	WED
	1850z	30/03 [280/00]	RNGB	SAT
	1850z	06/04 [287/00] Konyetz 1853z S4 (Dutch SDR)	Malc	SAT
	1850z	10/04 [281/00] Konyetz 1853z S2	Malc	WED
	1850z	13/04 [280/00] Konyetz 1853z S7	Malc	SAT
	1850z	20/04 [281/39 09107.....43152] Konyetz 1902z S6	Malc	SAT
	1850z	24/04 [282/00] Konyetz 1853z S5	Malc	WED
	1850z	27/04 [285/00] Konyetz 1853z S2	Malc, RNGB	SAT

10800kHz	1540z	09/03 [563/38 54017 82373 80376 28549 56472 03004 69902 97855.....51601 58099]	RNGB	SAT
	1540z	13/03 [563/00] Konyetz 1543z S3	Malc	WED
	1540z	16/03 [563/00] Konyetz 1543z S2	Malc	SAT
	1540z	20/03 [567/00] Konyetz 1543z S2	Malc	WED
	1540z	23/03 [565/00] Konyetz 1543z S4	Malc	SAT
	1540z	27/03 [569/00] Konyetz 1543z S6	Malc	WED
	1540z	03/04 [561/00] Konyetz 1543z S2	Malc	WED
	1540z	10/04 [565/38 71902.....78242] Konyetz 1552z S3 QSB2	Malc	WED
	1540z	13/04 [565/38 71902.....etc] Repeat of Wednesday	Malc	SAT
	1540z	17/04 [566/00] Konyetz 1543z S3	Malc	WED
	1540z	20/04 [561/00] Konyetz 1543z S3	Malc	SAT
	1540z	24/04 [560/00] Konyetz 1543z S2	Malc	WED
	1540z	27/04 [565/00] Konyetz 1543z S5	Malc	SAT
11493kHz	1015z	11/03 [477/00] Konyetz 1018z S4	Malc	MON
	1015z	14/03 [476/00] Konyetz 1018z S4	Malc	THU
	1015z	18/03 [477/00] Konyetz 1818z S3	Malc	MON
	1015z	21/03 [476/00] Konyetz 1018z S3	Malc, RNGB	THU
	1015z	25/03 [477/36 13510.....91763] Konyetz 1027z S7	Malc	MON
	1015z	28/03 [477/38 13510.....etc] Repeat of Monday	Malc	THU
	1015z	01/04 [477/40 93929.....87635] Konyetz 1028z S3	Malc	MON
	1015z	04/04 [477/40 93929 47469 95946 17625 40641 05790 47583 86025.....87635]	RNGB, Malc	THU
	1015z	08/04 [477/00] Konyetz 1018z S2	Malc	MON
	1015z	11/04 [479/00] Out 1018z S5	Malc	THU
	1015z	15/04 [476/00] Konyetz 1018z S4	Malc	MON
	1015z	18/04 [471/00] Konyetz 1018z S4	Malc, RNGB	THU
	1015z	25/04 [471/00] Konyetz 1018z S2	Malc	THU

V02 a

Nil Report

V07

March 2019

Sunday

0100z	15893kHz	0120z	14693kHz	0140z	13893kHz	
03/03		868 1 562 22 34337 ... 18061 000 000				Weak
10/03		868 1 9963 102 24268 ... 51752 000 000 Daniel [Ar] noted 'Unusual long message and activity.'				Weak
17/03		868 1 6628 100 91327 ... 91195 000 000				Weak
24/03		868 1 9786 92 29750 ... 88744 000 000				Weak
31/03		868 1 480 100 91162 ... 21307 000 000				Weak

April 2019

0300z	12218kHz	0320z	11158kHz	0340z	10418kHz	
14/04		254 1 789 56 6???? 44??7 ... ??197 000 000				Very weak
21/04		254 1 9367 80 48756 ... 69715 000 000				Weak
28/04		254 1 269 88 39582 ... 18323 000 000				Weak

V15 North Korean Intelligence via Radio Pyongyang

657//3320 kHz

1445z	23/03 North Korean Intelligence via PBS Pyongyang Pansong. Music followed by a message in Korean	AM (AB-J)	Ary	SAT
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V24

Barry reports:

"4900 am. V24 not found. Perseus net- Japan. 1430 utc, 14 Mar

5900 am. V24 not found. Perseus net- Japan. 1600 utc, 15 Mar (5120 was jammed and was the strongest point of the jammer)

There is a station operating parallel to 657 AM on 621 AM. Sometimes it has a cleaner reception with less interference from neighboring AM stations. It was parallel with 3320 and 657 today."

5115kHz1600z	16/03AM	(AB-J)	SAT	
K-popsong 'Amazing You' followed by a message in Korean				
5715kHz1500z	21/04	AM tx South Korean Intelligence. K-popsong followed by a message in Korean	Ary	SUN

V26

4243kHz1212z	03/03/19[(From M95 sked - USB - Chinese - Female - // N/H) (Remote tuner Hong Kong)]	JPL	SUN
4243kHz1225z	05/03/19[(From M95 sked - USB - Chinese - Female - // N/H) (Remote tuner Hong Kong)]	JPL	TUE
4243kHz0911z	14/03/19[(From M95 sked - USB - Chinese - Female - // 7356) (Remote tuner Siberia)]	JPL	SAT
4243kHz1217z	30/03/19[(From M95 sked - USB - Chinese - Female - // N/H) (Remote tuner China)]	JPL	TUE
7345kHz0911z	14/03/19[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner Siberia)]	JPL	SAT

Polytones

New sendings noted; courtesy Ary and Danix and presumably Priyom also ... thanks each

XPA1

Saturday

1300z 8084kHz 1320z 6927kHz 1340z nnnnkHz

687 687 687 1 687 687 687 1 687 687 687 1
00967 00052 54612 38570 78025 70483 84059 87862 18784 69836
55833 80966 87252 04013 60848 81178 81117 25621 78194 46164
28790 47454 79177 66070 48806 79804 29526 04112 51173 76317
85460 39632 58301 74807 24944 27168 15725 75822 17897 78066
37244 46017 68041 00054 25685 45977 46595 32271 15745 37476
67514 71480 86243 92098 46327

Courtesy Ary

XPA2 [Monday/Saturday]

12163kHz0400z?	25/03 [06740 00001 00000 ... 34662]	Perseus net- Germany.	SR	MON
12163kHz1600z	30/03 [05978 00001 00000 ... 41664]	Perseus net	SR	SAT

XPA2 [Wednesday/Thursday??]

1600z	13994kHz	1620z	13494kHz	1640z	12194kHz		
12/03	02247 00001 00000 ... 35656.	Perseus net- NL				SR	WED
28/03	07362 00203 71027 ... 76012	[1600/1620z Unworkable]		Weak		PLdn	THU

XPA2

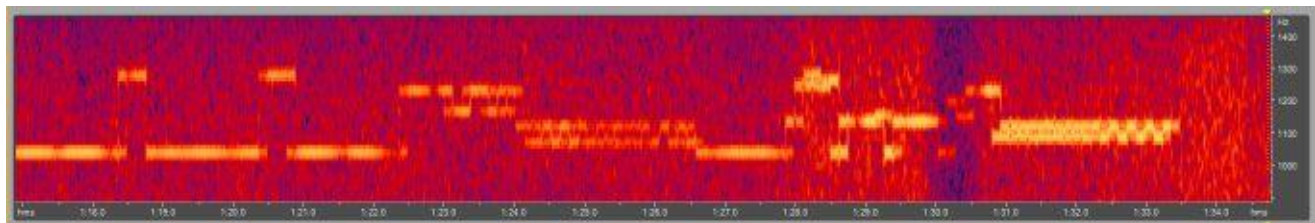
Thursday/ Saturday

0910z 16261kHz 0930z 15961kHz 0950z 14861kHz

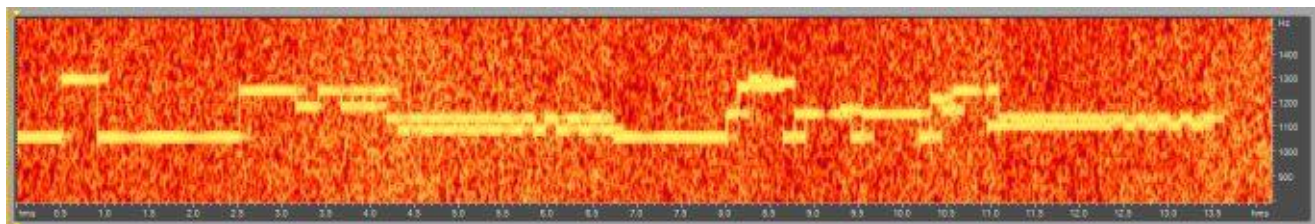
03268 00077 52871 42572 55693 88505 49028 65685 37277 51563
05455 91910 32162 53111 65481 82363 19620 94063 72713 14407
75214 89533 67834 51147 58427 89754 42402 67068 12107 54064
75410 19326 74251 67473 38938 77783 17611 72835 44606 61880
32477 21235 60784 19321 02752 23595 03049 06065 52603 64643
52890 45744 96830 77602 90941 78291 09997 89100 33649 39299
37174 98710 66632 96752 79650 33815 98054 85594 17487 64023
36082 76743 71777 12749 25186 63647 83402 26300 86850 30212

Courtesy Ary

07/03 07659 00001 00000 ... 40664 [0930z Noisy] Fair, 0910z missed



14861kHz0950z 14/03 Corrupt signal: Yaesu FT-897 Horizontal long wire



14861kHz0950z 14/03 Corrupt signal: G31DDC SDR Vertical 40m qtrwave ... [see also XPA2 p 27/03]

14/03	07978 00001 00000 ... 41666	[0950z Strong, corrupt sig, see above]	Weak, QSB2 throughout
16/03	04551 00001 00000 ... 34261	[0930z Weak and noisy, QSB2]	Fair
21/03	00906 00072 37992 ... 71421	[0910z QSB3]	Weak
28/03	02127 00001 00000 ... 35254	[0910/0930z Unworkable]	Weak
30/03	06731 00001 00000 ... 35262	[0910/0950z Unworkable]	Weak

April 2019

0910z 15859kHz 0930z 14659kHz 0950z 13459kHz

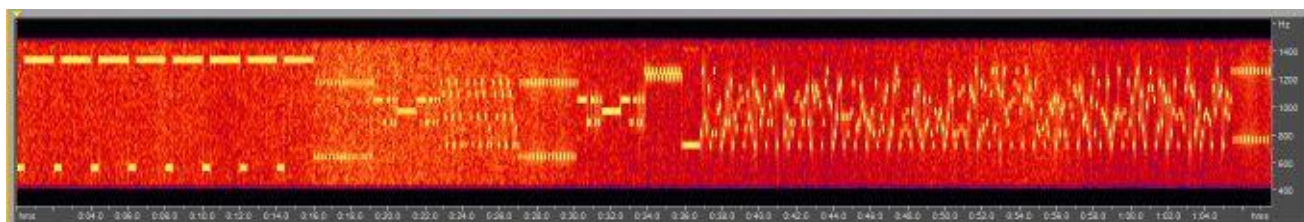
06/04	00458 00288 78692 ... 30406	[5m51s lg]	Weak, QSB3
11/04	09993 00244 62356 ... 30633	[5m17s lg]	[0950z Strong] Weak
18/04	07831 00187 04802 ... 03711	[4m34s lg]	[0950z Very strong] Fair, QRM3/4

07831 00187 04802 64071 54762 06087 83997 11966 42796 72004
95794 59086 04079 29295 40539 96194 03755 74441 66200 09890
87615 16309 74100 80159 94913 51330 56471 92802 71256 40401
70981 65282 09822 09469 81162 09608 89156 94860 71504 00989
75938 95678 15750 54151 31207 67378 72998 73789 41397 88828
65631 13428 27713 07033 42020 84830 75845 90446 71856 39835
92386 50152 50376 81654 04704 08132 20707 46466 15582 74123
66000 97452 61568 26292 73983 07555 15743 86724 23406 21613
48444 98736 93248 50023 46117 07179 77707 61075 03809 63036
74741 90988 98459 68833 16611 08548 92967 90869 18617 11228
92700 22642 81523 25082 13812 07316 74859 16775 27972 74150
21311 59220 76246 90375 20892 42435 93138 13184 01106 38176
50361 80456 88925 98593 68465 65951 98887 91283 66895 65037
99741 16896 24158 01163 22159 54153 98603 77349 15553 34915
87948 47761 05541 38593 98969 69118 25127 41273 25936 24452
65715 73844 53101 12358 53575 09542 64755 38505 96314 07345
47499 75579 19831 05284 53377 09959 46110 86580 35028 09487
65292 77478 05476 70469 64884 28999 90821 14750 80674 90003
84503 88655 57272 44437 19344 32497 97649 28972 47321 03711

Courtesy PLdn

25/04 0910/0930z NRH 0950z Unworkable. 2m47 lg msg

XPA1



Fair reception of XPA at 0830z 13453kHz [PLdn]

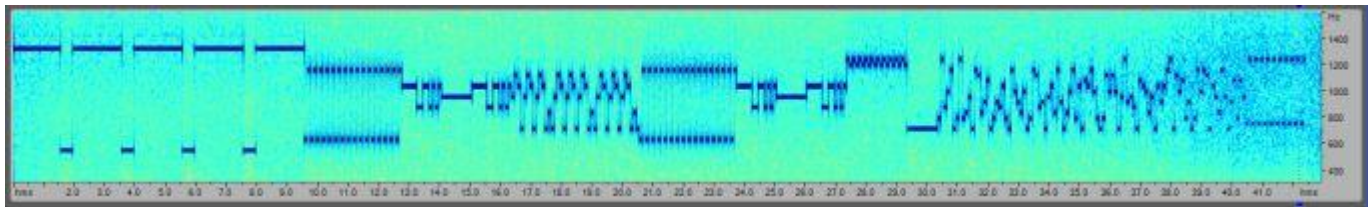
Tuesday/Thursday

March 2019

0810z	12132kHz	0830z	13453kHz	0850z	14576kHz	
05/03	973 1 00318 00045 02729 ... 47366			[0810z Weak, QRM3/4]		Fair
973 973 973 1 973 973 973 1 973 973 973 1						
00318 00045 02729 31586 17319 76248 25227 87803 20267 52682 86875 29965 03893 30349 12853 21409 03168 02889 03140 47280 61260 41341 03960 07180 38766 09182 77118 77425 69984 66685 91041 20546 60450 95387 86231 66059 43290 13443 40926 99371 58886 19286 60493 43188 87025 03432 84478 47366 <i>Courtesy PLdn</i>						
07/03	973 1 00318 00045 02729 ... 47366			[0810z QSB3]		Fair
12/03	973 1 00318 00045 02729 ... 47366					Strong
14/03	973 1 00318 00045 02729 ... 47366			[0810z Fair, QSB2]		Strong
19/03	973 000 06053 00001 00000 ... 32663					Fair
21/03	973 000 02693 00001 00000 ... 35663			[0810z Fair]		Strong
26/03	973 1 00239 00200 53279 ... 26007			[0850z Strong]		Fair
973 973 973 1 973 973 973 1 973 973 973 1						
00239 00200 53279 62639 49452 54471 88557 83195 08812 87285 82725 20725 24982 57515 37172 61684 22890 00996 28671 95900 45544 80456 51800 97351 25750 33659 78395 72279 77500 26073 90236 19359 45433 90507 23242 66009 57282 09461 45801 06156 14866 83675 29286 02668 82427 05978 84000 34721 82825 62371 58138 63914 36412 41947 65356 35136 00059 38656 46337 85464 83656 18123 04260 04645						
85316 54938 84790 40617 88819 91308 20723 20285 03170 82626 43789 52342 42438 89093 76842 12524 88178 55179 03064 39445 80154 20717 04463 86154 13402 19372 94881 68707 89248 32132 39766 43870 14231 80191 75243 43154 69695 97334 48154 29240 11671 54954 69364 26597 91020 26866 73321 88065 21368 17507 97810 55003 32390 18089 17179 99320 45116 94178 43821 26769 66874 41957 42532 06020						
34666 06054 05535 15739 01344 58435 04348 12117 75170 31987 11488 35365 16266 46611 45210 31423 59147 96641 07643 70741 14674 42989 11191 95837 63020 48503 01384 96795 76718 07039 54837 04673 36259 23337 75291 66964 22319 45178 14305 60114 73491 51136 73621 81392 81514 27671 03890 49298 91053 70556 13310 09285 91465 96652 88868 06026 00627 80764 89978 64507 74647 21670 07687 81499						
29693 44589 33763 59074 34937 28776 65442 92397 34617 58880 26007 <i>Courtesy PLdn</i>						
28/03	973 1 00239 00200 53279 ... 26007			[0810z Very strong, 0830z QSB3]		Fair

April 2019

0710z	10428kHz	0730z	11431kHz	0750z	13441kHz	
02/04	486 1 00239 00200 53279 ... 26007			Tnx Ary & Edd		Strong
04/04	486 1 00239 00200 53279 ... 26007					Fair
09/04	486 1 00259 00014 98137 ... 37074			[0730z Fair]		Very strong
486 486 486 1 486 486 486 1 486 486 486 1						
00259 00014 98137 03260 95315 09823 46193 15906 76950 08585 44342 76514 63699 85703 09598 64194 37074 <i>Courtesy PLdn</i>						



XPA 14 group message, shortest I can remember having been sent across the Polytone system in 25 years

11/04	486 1 00259 00014 98137 ... 37074	[0710z Fair]	Strong
16/04	486 1 00259 00014 98137 ... 37074	[0710z Weak, noisy]	Fair
18/04	486 1 00259 00014 98137 ... 37074	[0730z Fair]	Weak
23/04	486 1 00274 00200 46436 ... 72305		Weak
25/04	486 1 00274 00200 46436 ... 72305	[0710z Strong]	Fair
30/04	486 1 00274 00200 46436 ... 72305	Fair	

486 486 486 1 486 486 486 1 486 486 486 1

00274 00200 46436 19372 92024 11970 83071 40206 64329 88372
 22213 63099 73828 49317 47981 85841 36280 17043 94147 88016
 95894 79816 30151 18515 20851 56186 78853 23279 66563 15178
 21579 92718 77702 14199 57290 21883 63613 58887 26529 74293
 90246 68791 83511 45530 28301 04967 02431 47787 20308 65876
 42539 32956 92413 87233 73292 78553 31061 91846 43603 31814
 14186 95414 73745 27507

71426 16528 11636 44295 64131 92537 45521 48930 64202 85653
 96973 38887 33964 98979 73579 57353 05384 95143 77352 16431
 42374 54100 39395 86658 62816 76478 74884 80397 13644 32043
 55439 47628 79077 98892 90419 75312 55680 49923 28142 89821
 91586 96685 95334 72408 97403 10313 26999 21337 53969 29889
 58015 71646 51053 65509 09676 12061 28013 21654 23461 56461
 31900 30622 29660 17547

20567 70944 58430 93667 86482 58130 31576 13402 35854 55314
 66725 72609 55748 98677 94918 72872 10772 43948 03331 66824
 04752 40483 11057 07046 50706 13008 87549 59329 95558 51094
 61883 90631 07007 59550 40492 67299 13859 61155 00910 39063
 97235 29285 33013 35212 55016 28987 85962 04085 01485 67223
 58015 02186 25122 90219 47799 10910 08023 46990 24123 41443
 76592 17640 88733 41179

20320 55900 54446 46693 90313 26494 24047 99107 50633 18414
 72305

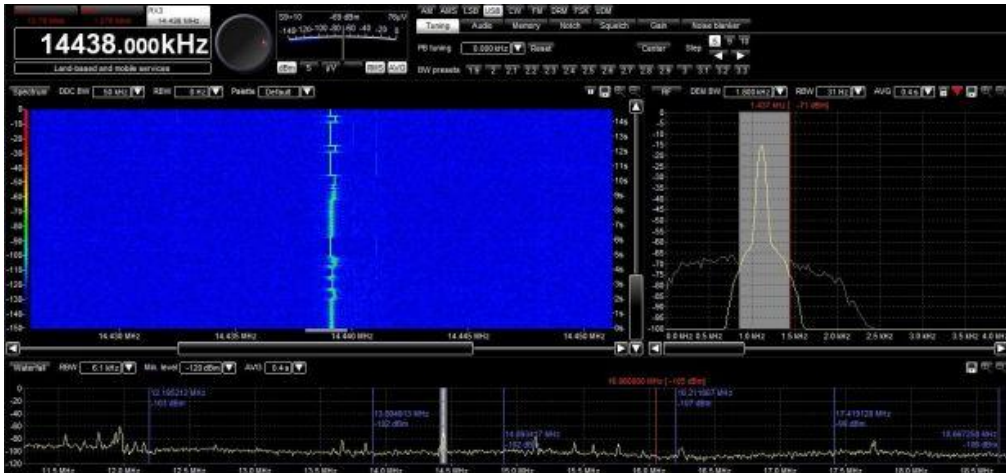
Courtesy PLdn

XPA2 m

Sunday/Tuesday

March 2019

1500z	16138kHz	1520z	14438kHz	1540z	13438kHz
03/03	09778 00001 00000 ... 40670			[1500z Unworkable]	Weak
05/03	04693 00001 00000 ... 35665			[1500z NRH]	Very strong



A very strong signal across the schedule as sent 10/03/2019

10/03	09287 00001 00000 ... 35671		Very strong UK, Weak Argentine
12/03	02679 00001 00000 ... 40661	[1500z Unworkable]	Strong
17/03	03822 00082 69682 ... 04451	[1500z NRH]	Weak
03822 00082 69682 15964 66274 18179 27678 06330 24363 53706 43223 68872 71354 90048 83100 10364 73254 39759 62685 35338 45926 95310 75212 37917 53977 68648 05970 71680 16678 70267 24062 38404 20803 62389 79379 60714 79680 93595 29100 50641 22433 99202 06740 79552 25926 57842 95286 98124 81235 04903 52227 85010 82094 05218 49411 46009 00041 66186 17722 55372 16643 43400 05868 94299 14171 72835 40228 06365 92486 07983 35831 44244 36132 09394 60358 68653 15127 96002 13783 42570 60295 14367 48938 58653 04451 <i>Courtesy PLdn</i>			
19/03	03822 00082 69682 ... 04451	[1500z Unworkable]	Fair
24/03	00344 00102 32673 ... 25065		Fair
00344 00102 32673 61680 46656 73111 87542 91657 64314 86122 26022 59289 31280 54248 38262 51438 48016 29184 88890 18662 26524 94142 12009 61997 88818 58868 81514 76638 05641 39295 02686 06581 53116 03434 28601 38019 65762 85658 23175 06803 04988 84681 84929 52360 66265 51894 07051 24302 70109 70314 60599 28286 06655 26497 46074 45015 83466 05798 90858 58226 72421 72261 86366 92436 86110 64571 05458 74522 91601 23272 46933 30575 92862 21590 81619 42034 59826 70179 82202 07743 17891 83393 80539 07360 03978 87282 93873 18170 01680 23335 49253 34509 28883 84142 69305 57746 63135 01105 96707 13902 40822 22081 33899 96999 25065 <i>Courtesy PLdn</i>			
26/03	00344 00102 32673 ... 25065		Very strong [also copied in US by SR]
31/03	04851 00102 56967 ... 52042	[1500z NRH Ldn, weak copy Argentine]	Fair

April 2019

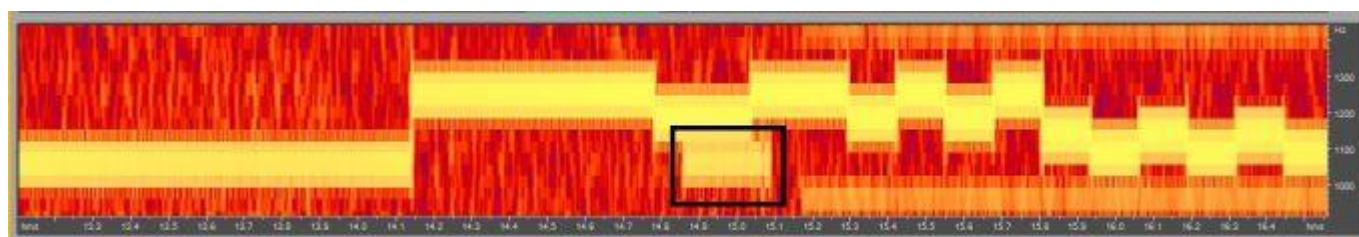
1800z	14538kHz	1820z	13538kHz	1840z	12138kHz	
02/04	04857 00102 56967 ... 52042					Very strong
07/04	02697 00098 54060 ... 31600					Strong
02697 00098 54060 56764 64750 22166 54978 07064 43813 68444 41959 11413 82930 93134 26595 83433 11400 16610 87410 17113 40781 84237 48460 10503 51181 90155 50174 58348 75788 65780 83163 14465 17068 54708 56186 65138 50541 78693 39605 57508 30671 09503 15016 98414 43769 75640 39179 51788 74974 94374 11501 11183 71330 10854 54739 47857 89165 83114 55158 64446 61110 71531 13776 51664 96481 50848 38703 31786 00691 74441 11758 16700 10597 11961 79391 51313 31890 69618 45171 51960 41491 41747 16194 64134 16989 35611 94559 70168 70111 91749 40501 89443 98706 15305 56669 38491 91331 81651 11887 13916 31600 <i>Courtesy PLdn</i>						
09/04	02697 00098 54060 ... 31600					Strong
14/04	07931 00080 68431 ... 42746					Strong UK, Weak Ar
07931 00080 68431 12499 82305 34117 10926 96963 60449 54379 51221 82298 77923 28577 79663 31265 95693 11300 55158 21730 32433 68145 14299 43331 44269 87102 01083 04613 58326 98123 92967 77314 10011 17514 71581 56242 52346 56719 54915 12096 11858 86274 16722 01047 73518 81261 12517 90026 13448 69557 31192 62594 70825 25515 25019 92751 27470 58622 72965 62045 48665 44301 44649 96096 88281 58054 32762 23406 74808 76243 53844 74586 93494 06950 52961 88305 47778 72620 95929 52798 47345 53410 42746 <i>Courtesy DanAr</i>						
16/04	07931 00080 68431 ... 42746					Very strong
21/04	00478 00098 36636 ... 47164			[1800z Unworkable]		Very strongUK/Weak Ar
21/04	00478 00098 36636 ... 47164					Very strong
00478 00098 36636 38888 76920 94611 29879 02867 60997 92972 57760 22255 29513 51609 34334 85682 47639 13594 75952 65137 54239 70548 72718 78628 27952 25969 51650 74652 91010 27153 93346 34703 86010 44193 92367 77307 89187 67088 26913 70190 54323 74986 70761 24958 34314 17764 57417 12052 62503 13130 87118 86656 79370 83955 82487 76976 74209 22810 70588 57937 30144 57222 72693 49282 01896 08281 88292 82453 44803 38593 74193 37123 40653 72311 83273 48846 87944 64523 44585 87394 48044 74677 17927 96471 48694 66827 91467 66670 92882 25525 51343 49665 33425 04070 08889 61336 65665 74553 88334 31166 46164 <i>Courtesy PLdn</i>						
28/04	06738 00024 38033 ... 36147					Fair
30/04	06738 00024 38033 ... 36147					Fair

XPA2 p

Monday/Wednesday

March 2019

0800z	12192kHz	0820z	13892kHz	0840z	14892kHz	
04/03	02782 00001 00000 ... 35662				[0840z Unworkable]	Fair
06/03	09336 00001 00000 ... 35664				[0800z Fair]	Strong
11/03	04068 00001 00000 ... 35262				[0800z Fair]	Strong
13/03	08197 00001 00000 ... 35271					Strong
18/03	02036 00001 00000 ... 34255				[0840z Fair]	Very strong
20/03	05608 00001 00000 ... 40255				[0800z Fair]	Strong
25/03	04314 00001 00000 ... 34655					Fair, local noise
27/03	07722 00001 00000 ... 35661				[0800z QSB3, 0840z Strong]	Fair, see image below:



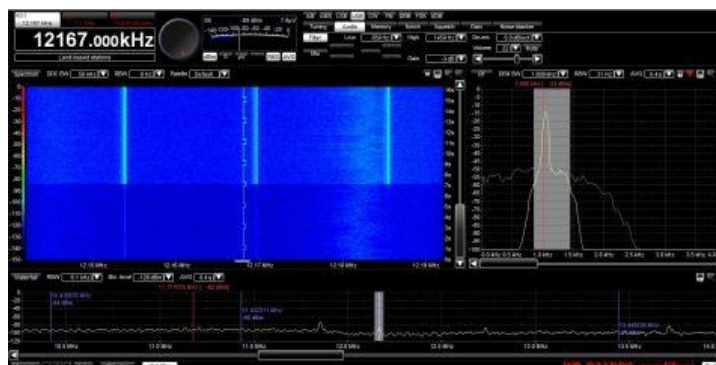
On 0820z sending an additional tone below 2* on the '62*62626' separator. Not seen on 0800/0840z waveforms

April 2019

0700z	11167kHz	0720z	12167kHz	0740z	13567kHz	
01/04	04851 00102 56967 ... 52042				[0700z Fair, noisy]	Very strong
03/04	06115 00001 00000 ... 34257					Very strong
08/04	00183 00185 09616 ... 42537				[Noise removal 0720z see below]	Very strong

00183 00185 09616 13066 29078 69858 38124 25807 36127 89428
 78045 76817 39253 09975 55116 20094 48644 65661 48556 38955
 32680 72252 06727 21280 53988 62038 66759 76820 29670 55422
 52401 47482 26005 72505 22370 29836 09945 82681 86088 47839
 37636 62805 19357 95899 12025 48775 00195 93629 76393 60706
 03050 64233 57964 15386 41737 05814 70185 41388 90158 03602
 11259 83391 04165 22517 51364 11057 74768 73688 11924 11164
 59436 46928 36393 88119 26659 78861 38881 76137 44943 68260
 83193 38187 34444 61141 59166 28866 52576 80331 05311 62504
 70322 14670 62381 98624 01448 93226 33087 10669 99886 76655
 15011 33845 10456 50331 41014 62071 47696 54700 62632 44162
 42835 69622 27790 19817 42628 97045 41515 30158 89967 78868
 33460 54381 90862 69691 16511 19554 95500 33796 67643 15455
 96969 59807 33248 03083 43298 64232 21525 86299 12962 66677
 40450 61302 12914 58778 19857 53715 02761 17029 59670 80469
 02320 73765 43266 83293 63968 94151 44759 09079 47685 09461
 59200 48239 28688 20910 77439 93879 19966 02668 50708 67752
 10804 56151 08970 65082 03506 00588 12339 91641 59385 44248
 22887 65190 83198 57182 80792 34613 01377 42537

Courtesy PLdn



10/04	00183 00185 09616 ... 42537	[Noise removal 0720z as above]	Fair, QSB3
15/04	00183 00185 19616 ... 42537	[0700z Weak, 0720z Fair]	Strong
17/04	00183 00185 19616 ... 42537	[0700z Weak]	Strong
22/04	00389 00200 43548 ... 20072	[0700z Weak, QSB3/4]	Strong
24/04	00389 00200 43548 ... 20072	[0740z Fair]	Strong
29/04	00389 00200 43548 ... 20072		Fair

00389 00200 43548 23294 45520 24349 36792 01913 35565 12209
29110 78676 77098 00441 96753 33787 95372 49390 13618 78741
79052 04933 94581 99769 24521 76912 50960 95326 58294 30903
62543 18125 42539 59162 97779 64311 99960 62309 82879 05401
35091 38506 91299 35930 05472 69994 06697 94052 89391 39139
53425 36702 26962 37752 61321 84387 85299 67882 74733 21528
58172 97154 18534 90799 78304 36887 09099 86443 71019 20322
16719 29727 14832 88807 01529 00270 02987 07774 47471 24009
91146 53054 18172 74406 42188 59124 96285 63428 61594 33887
63814 51736 76013 03792 78429 25355 69032 12912 24094 66942
27849 02270 47527 03960 89754 78774 29566 31760 83901 22881
14477 14645 41326 61330 72425 17681 01408 67349 92986 37259
79465 21122 64821 52660 20045 38931 38864 46949 77686 58805
47025 78477 01963 05363 55235 39138 92897 51736 15690 82907
00552 25578 96920 25324 15462 69672 55525 07444 06532 77935
19253 64336 40200 76813 26567 35355 93823 32593 72966 10774
32590 54240 58643 27494 06329 67852 97030 09995 57608 36752
01685 11937 33365 34560 53719 10284 99761 45915 24165 85410
44588 92594 24952 85972 06388 69733 52521 02589 82629 38093
78360 48966 26050 88825 26974 30991 64799 34287 79088 38373
05438 95165 20072 *Courtesy PLdn*

XPA2 r

Friday/Saturday

March 2019

1400z	18667kHz	1420z	17419kHz	1440z	16212kHz
01/03	Message, possibly 2m35s lg				Unworkable
08/03	NRH				Only 1440z monitored, auto intercept
09/03	NRH				Only 1440z monitored, auto intercept
15/03	04862 00092 70004 ... 34134				Unworkable UK, weak Argentine
16/03	04862 00092 70004 ... 34134				1400z Unworkable, 1420z Weak, 1440z Fair

04862 00092 70004 82246 95049 01264 41191 17663 00738 98310
77370 15837 49303 89830 69360 76287 81388 22549 21636 27499
14538 32388 75710 34306 71811 49421 55880 04659 85422 76810
51106 19418 84433 49551 77071 20869 72602 14606 89913 17136
49852 28652 58025 31947 80275 98606 01371 88693 55911 70382
59434 70660 16700 93686 05878 88250 95042 32538 55441 66123
08680 93578 34091 34074 00687 65593 18092 09974 26537 35311
48560 49722 59127 90963 36208 86056 65479 85303 61922 10324
12210 72852 66852 69965 78006 81094 67047 81781 19970 55068
55037 14550 21925 48776 34134 *Courtesy PLdn*

22/03	00665 00082 14101 ... 26476	[1400z Unworkable]	Very strong
23/03	00665 00082 14101 ... 26476	[1400/1420z Unworkable]	Weak

00665 00082 14101 60717 49779 94790 13967 62218 39511 88706
12334 83107 46336 08886 28301 09268 96606 87433 45055 21477
10810 32922 01588 56621 78862 21480 88117 98840 21701 64044
84767 06704 23077 66723 67972 44822 28596 60875 50738 54283
09757 64223 48271 95650 84436 34527 92379 83883 46496 38203
55649 81914 66641 16495 38836 73419 84249 69609 13657 32980
43918 40949 80219 16068 61944 43669 21347 28820 41201 42354
69102 62507 50389 93189 90615 14880 51000 05941 14389 62179
76209 91574 11456 61814 26476 *Courtesy PLdn*

29/03	1400z NRH, rest unworkable
30/03	NRH London, [Strong sig in Cardiff -- full msg]

April 2019

1900z	17462kHz	1920z	16114kHz	1940z	14828kHz
05/04	NRH London				
06/04	NRH London				
12/04	NRH London				
13/04	NRH London				
19/04	00486 00100 18182 ... 15566			[1900/1920z Unworkable]	Strong
20/04	00486 00100 18182 ... 15566			[1940z only, auto intercept]	Very strong
26/04	01091 00001 00000 ... 31662			[1900z NRH, 1920z Unworkable]	Very strong
27/04	NRH London				

Tones, Hybrids and FSK

Nil Report

HM01

From US:

11435kHz1600z	02/03	Radio Havana feed before switching to HM01 data in mid progress, then problems sending data	SR	SAT
1559z	04/03		SR	MON
1403z	19/03	HM01 started late missing preamble and some data.	SR	TUE
11435kHz1605z	22/04	in progress	SR	MON
11530kHz1703z	01/03		SR	FRI
1704z	08/03	i/p	SR	FRI
1657z	08/03	Sent early, good signal	SR	FRI
1657z	30/03	starting early	SR	SAT
11635kHz1804z	08/03	i/p	SR	FRI
1802z	27/03	in progress	SR	WED

From the UK PoSW writes:

As always the Mixed Mode station from Cuba gives somewhat variable reception, has only been heard on those days of the week when frequencies in the 9 MHz band are used.

8-Mar-19, Friday:- 0727:40s UTC, 9330 kHz, starting up after the break, peaking S9 with the usual deep fading up and down which is always a feature with this one, best signal so far this month, 5Fs "18253 65311 55104 83886 28556 23037", data sounds at 0731:2s.

11-Mar-19, Monday:- 0757:40s UTC, 9065 kHz, same 5Fs as on the 8th, S8 with the usual QSB.

20-Mar-19, Wednesday:- 0927:25s UTC, 9240 kHz, "18253 65311 55104 83886 28556 23037", no change there, S7 to S8 with deep QSB.

22-Mar-19, Friday:- 0906 UTC, 9240 kHz, transmission in progress, 5F groups unchanged.
Stopped for the break at 0918:30s UTC.

24-Mar-19, Sunday:- 0757:25s UTC, 9065 kHz, "18253 65311 55104 83886 28556 23037",
good signal this morning, pushing the meter well over the "9" at times.

25-Mar-19, Monday:- 0928 UTC, 9240 kHz, start-up routine following the break in progress,
S8 with deep QSB, no change in 5Fs, data sounds at 0930:45s UTC.

29-Mar-19, Friday:- 0828 UTC, 9065 kHz, call-up in progress, weak, "18253 65311 55104 83886 28556 23037".

1-Apr-19, Monday:- 0758 UTC, 9065 kHz, weak signal, same 5Fs as in March.

7-Apr-19, Sunday:- 0804 UTC, 9065 kHz, transmission in progress, S8 with deep QSB, "18253 65311 55104 83886 28556 23037", so no change there.

Gizza Job





From Australia





From 'E'

Metro Newspaper UK

Spooks move home: Spy agency GCHQ lifts lid on old London base

by Daniel Binns Published April 5, 2019

<https://www.metro.news/spooks-move-home-spy-agency-gchq-lifts-lid-on-old-london-base/1506068/>

BRITISH spy agency GCHQ has confirmed the location of its 'secret' London office base for the first time — sandwiched between a coffee shop and a pub.

Its staff have been working out of offices which bear a striking resemblance to those in TV drama Spooks, in a nondescript building opposite St James's Park station, Westminster, since 1953. The revelation comes because the intelligence agency, based in Cheltenham, has moved elsewhere in the capital.

GCHQ said: 'The hub has played its part in significant events over the years, such as the 2012 London Olympics, working with our partners, MI6, MI5 and the Metropolitan Police to counter-terrorist activities and serious and organised crime whilst keeping ministers up to date with security briefings.'

It has long been rumoured multiple British spy agencies have been operating from the neighbourhood. MI6, which carries out foreign intelligence, used a St James's Park office, which claimed to make fire extinguishers, from the 1920s.

But taxi drivers soon discovered its purpose and a German spy in the 1930s — in the guise of a blind matchseller at the Tube station — is said to have photographed everyone going in and out.

Founded in 1919, GCHQ mainly works on counter-terrorism and cyber crime.

Secret door: The building's entrance

In 2013, it was criticised after US whistleblower Edward Snowden said it collected data on UK internet users. GCHQ director Jeremy Fleming said: 'As we depart our Palmer Street site after 66 years, we look back on a history full of amazing intelligence, world-leading innovation, and the ingenious people who passed through those secret doors.'

'Then, as now, it's a history defined by the belief that with the right mix of minds, anything is possible.'

<https://www.metro.news/spooks-move-home-spy-agency-gchq-lifts-lid-on-old-london-base/1506068/>

Wonder if the person who successfully applied for this job [advertised Metro 6th March 2012] was transferred Victoria Station way at the end of his three year contract?:



Given the move dates he may well have experienced a few months extension, or not!

PoSW's Items of Interest in the Media:-

Interesting discovery in central Europe:- From *The Times* of 13-March comes a somewhat unusual story with the headline, "Enigma machine's secrets unearthed", written by Jack Malvern which says, "Heavily corroded and encrusted in mud, the Enigma machine found in central Europe was a mystery even to expert code-breakers.

Historians at Bletchley Park, the heart of Britain's code-breaking operations during the Second World War, knew at once that it had been used by Axis forces. However, they have only just begun to understand its odd configuration and how it came to be buried on the Polish-Czech border.

The machine, a rare model with special features, will go on display tomorrow at Bletchley

Park. It will be one of 12 exhibited at the museum in Buckinghamshire and is one of about 400 that are known to have survived the war. The National Cryptologic Museum in Maryland, run by America's National Security Agency, owns 45. They were used by Nazi Germany and its allies to send secret messages between commanders at bases and in the field. It is believed as many as 37,000 were produced."

There then follows a couple of paragraphs explaining what the Enigma machine was all about and its importance in World War 2, all of which is well known to those of us who take an interest in this kind of thing and hereby omitted and returning to the facts of the story:-

"The machine unearthed on a farm is a G31 model, one of only two known to survive.

Beneath layers of rust lay the serial number 110, which was recorded by the machine's manufacturer as one of 24 models delivered to Hungary in the early 1930's. The buyer would have been the Hungarian army or intelligence service. Erica Munro, exhibitions manager at Bletchley Park, said that the machine was more sophisticated than most models.

It had a counter that showed how long a message was and a function that allowed the operator to go back if he made a mistake.

'The other interesting thing is that there is a round socket which could be plugged into a

printer,' she said. These additions suggest that the machine was used at a central command post rather than units in the field.

The museum borrowed the model in 2012 and bought it in 2016, when it began investigating it in earnest. It was so covered in rust that it was sent to a specialist conservator, Ian Clark, who removed mud and earth from its inside.

He found that much of the wiring and components were intact but that the rotors had been removed and there was deliberate damage. The burial suggested that an officer had tried to make the machine useless to the enemy as the Hungarian army surrendered to Soviet forces.

Peronel Craddock, head of collections and exhibitions, said that finding the serial number was a revelation. 'There was a lot of very excited cheering and screaming' she said. 'We found this number on the bottom of the machine. It makes perfect sense. It fits into the life story of the machine.'

David Kenyon, a historian at Bletchley, said: 'What makes this especially interesting is that our research has revealed the life story of the machine from its original manufacture and sale, to its sad fate at the end of the war. The object sums up in an individual way the wider story of World War Two.'

The Gatwick Drone; an update:- The effects of the disruption at Gatwick Airport in the run-up to the Christmas travel season continues to rumble on, although there does not appear to be any firm evidence that there ever was a drone flitting around the Sussex skies, certainly no believable photographic proof has been made public and the suspicion remains that this was all a carefully constructed performance to divert public attention from something else which was going on. Whatever the facts of the case, the following appeared in *The Times* newspaper of 26-March under the headline, "Gatwick drone chaos costs police £500k", written by John Simpson, Crime Correspondent, which says, "The police response to the Gatwick drone disruption has cost almost half a million pounds. The hunt for the drone operator, whose device forced more than 1,000 flights to be grounded or re-routed in December, has cost Sussex police £419,000 while Surrey spent £40,000 on police overtime alone.

Henry Smith, the Tory MP for Crawley, described the figure as shocking yesterday and called on the Home Office to provide additional funding to tackle the threat from drones, which he raised in July 2017. 'Eighteen months before the Gatwick drone incident I warned in Parliament this might well bring major disruption,' Mr Smith said. 'I will be pursuing with the Home Office whether they are willing to pay or contribute to these costs.' Sussex police spent £332,000 on overtime and bank holiday pay, £52,000 basing police officers at Gatwick, £12,000 on bringing in extra officers, £14,000 on accommodation and food, £4,000 on equipment and £5,000 on transmission.

Katy Bourne, the Sussex police and crime commissioner, said that she had ensured the force had contingency funding for major incidents. 'I will be working with the chief constable and seeking to recover from third parties some of the policing costs associated with the investigation', she added."

Chinese telecom company continuing to make the headlines:- The Chinese telecommunications company Huawei has been in the news here with regard to their involvement in the new 5G mobile phone system. Chinese companies have been invited to take part in all sorts of major projects in the UK, including nuclear power generation and railway construction. I guess nothing indicates the decline and fall of this country and its political and managerial class that they need to go to the Chinese to get the job done.

There have been questions raised over whether allowing a totalitarian country like China to be in charge of so much of our vital infrastructure is a good idea, but the government have indicated that there is nothing to worry about here. Strange then that when I put the radio on to hear the news a few weeks ago there was an interview with some individual from the government in full jingoistic mode talking about the deployment of the new British aircraft carriers. He was going on about the threat the Chinese posed to our well-being and that was why one of these carriers was to be posted to Pacific waters to be within striking distance of China. I was waiting for the interviewer to ask this Tory sack of ordure a question along the lines of, "Well, if you think China is such a threat to us that you regard it necessary to deploy our armed forces to the other side of the world, then why is the government of which you a part permitting the Chinese to become involved in the parts of the economy which would be so important in time of war? But no such question was forthcoming.

It seems that Uncle Sam has concerns over Huawei too which has resulted in legal action which was reported in the *I* newspaper of 8-March.

"Huawei sues United States over security risk claims", written by Joe McDonald which says, "Huawei is suing the US government over a law that labels the Chinese tech firm a security risk and would limit its access to the American market for telecom equipment.

The move comes as the biggest global maker of network equipment fights a US campaign to persuade allies to shun Huawei. That effort threatens to block access to major markets as phone carriers prepare to invest billions of dollars in next-generation 5G networks.

The complaint, filed yesterday in Plano, Texas, the headquarters of Huawei's US operations, argues that the law violates the constitutional separation of powers, denies due process and singles out the company for adverse treatment. It adds that the law amounts to a corporate 'death penalty'.

Huawei is at the heart of US tensions over technology competition and cyber spying. The company has spent years trying to put to rest accusations it facilitates Chinese spying or is controlled by the ruling Communist Party. Increasingly, both sides appear to be resorting to the courts to press their cases.

'We are compelled to take this legal action as a proper and last resort,' the company's rotating chairman, Guo Ping, said at a news conference.

Huawei has pleaded not guilty to US trade-theft charges after a federal court in Seattle

unsealed a 10-count indictment in January against two of its units, Huawei Device and Huawei Device USA. The charges include conspiracy to steal trade secrets, attempted theft of trade secrets, wire fraud and obstruction of justice.

The company's chief financial officer, Meng Wanzhou, is fighting extradition to the US after she was arrested in Vancouver, Canada on 1 December. US prosecutors have filed charges accusing Ms Meng, who is the daughter of Huawei's founder, of lying to banks about dealings with Iran. Huawei denies any wrongdoing.

US authorities 'have hacked our servers and stolen our emails' but have presented no evidence to support their security claims, Mr Guo said. He complained Washington was 'sparing no effort to smear' the company.

Point to ponder:- "As with the Christian religion, the worst advertisement for socialism is its adherents" - from *The Road to Wigan Pier*, by George Orwell.

Thanks Peter.

Concerning the G31 machine Peter describes I believe it is displayed in Block C near to the information desk [look left as you leave the entrance area].

The Spectre's News articles

From our man in Belfast

'Fake news' sent out by government department

By Sanchia Berg BBC News

18 March 2019

<https://www.bbc.co.uk/news/uk-politics-47571253>

British government officials forged documents to produce "fake news stories" during the Cold War, newly released files show.

The Information Research Department (IRD) was the Foreign Office's secret propaganda unit.

For 30 years it fed information to journalists and had its own news agencies too.

Almost 2,000 of its files have been transferred to the National Archives since the start of 2019.
'Cold warrior'

The files cover the early 1960s - the heyday of the IRD, when it employed between 400 and 600 people, according to Paul Lashmar, author of Britain's Secret Propaganda War.

In 1978, Mr Lashmar was part of the team of journalists who revealed the existence of the IRD. He says this is the first time their role faking documents has been exposed.

The team was funded by the so-called "secret vote" - where government money not subject to parliamentary scrutiny was used.

Part of the project involved working abroad, but it also fed information to London-based academics and correspondents.
Image caption The Berlin wall, dividing the east and west of the German city, was a famous symbol of the Cold War

Among the newly released files are lists of trusted journalists.

In 1960 that included Neal Ascherson - then a young reporter at the Observer newspaper who was introduced to the IRD by Edward Crankshaw, a more senior Soviet specialist.

"I was taken to a London club and we had a nice lunch with Edward and myself and this gentleman," Mr Ascherson remembered.

"After I'd been looked over and tested... I was allowed to receive the news bulletin of eastern European 'product'."

The IRD information was delivered by hand and treated as secret - but Mr Ascherson said he "very rapidly discovered it was completely useless", since it contained "stale, out of date" news.

He found the analysis "childish... very cold warrior", and says he never relied on the information.
Faked notepaper

According to Mr Lashmar, the officials at the IRD were enjoying the game, competing with the other side.

One complex scheme involved faking a press release from the World Federation of Democratic Youth (WFYD), a Communist-backed organisation based in Budapest.

In 1963, African students in Bulgaria made international news. Scores had left the country, claiming racial discrimination, and the IRD decided to use this to "intensify indignation... against Bloc countries".

On fake headed notepaper, the IRD circulated a press release to hundreds of newspapers and opinion formers - sending the releases via the British diplomatic bag which meant they would have the right postmark.

The press release - reprinted in full by a news agency in Zanzibar - included an offensive statement that the Africans "emerging from the jungle darkness of want, [they] were not equipped to understand that food, fuel and clothes were not freely attainable..."

African students were furious. The Nigerian student union said this was a declaration of "white superiority".

Some weeks later, the WFYD insisted it had been a fake release.

Most of the IRD's efforts were concentrated on foreign news, but occasionally they were employed in the UK.

In 1962 Labour MP for Islington North, Gerry Reynolds, asked for their help.

He feared his local Labour party was being taken over by "a well-organised group of extreme left-wing malcontents, probably Trotskyists", and wanted the IRD to dig up any information on the individuals concerned.

The IRD turned to the security services, which confirmed that Dorothy Hayward had been a member of the Revolutionary Communist Party in 1947; that Sidney Lubin had endorsed a Communist council candidate in 1951; and that Francis Dunne had distributed a Trotskyite newsletter.

This information was "a bit stingy", wrote one IRD officer whose disappointment suggested he had expected more information. Nonetheless, he passed it on to Mr Reynolds, who remained the MP there until 1969.

It is not known what - if anything - happened to those people the IRD had named.

The files show the IRD manufactured and distributed statements from the International Institute for Peace in Vienna on several occasions.

It also faked posters from the International Union of Students, replacing the acronym "US" with Chinese characters, to turn an anti-US nuclear campaign into an anti-Chinese one.

This is the first time that IRD's own forgeries have been revealed.

At the time, it was keen to highlight forged documents produced by the Communists. They were known to be prolific: at one point a forged British cabinet paper was being circulated amongst African leaders.

In North Korea and East Germany, such fakes were produced on an industrial scale, according to files recently released.

Mr Lashmar said: "Should a democracy be secretly putting out fake or forged material? No. If totalitarian people are manipulating things... that doesn't mean we should follow suit."

<https://www.bbc.co.uk/news/uk-politics-47571253>

Chart Section Index

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May 2019

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Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
		x	x				0315		E11	03	8565 25#	8565 25#
x	x	x	x	x	x	x	0400		V13	0	9725	15388
x	x	x	x	x			0400		S06	01A	15721 480	15721 480
			x				0430/0450/0510		E07A	01B	7933/ 9133/10233 741	7933/ 9133/10233 741
x							0450		E11	03	7469 41#	7469 41#
	x			x			0455		S11A	03	5149 32#, check	5149 32#
x	x	x	x	x	x	x	0500		V13	0	9725, 18040	11430
x		x		x		x	0455		HM01	18	10860	10860
	x		x		x		0455		HM01	18	11462	11462
x	x	x	x	x			0500		M14	01A	18041 952	18041 952
	x		x				0500/0520/0540		M12	01B	search	search
					x		0500/0520/0540		M12	01B	9167/10267/11567 125	9282/10982/12182 291
						x	0500/0520/0540		V07	01B	x14482/13382/ 11582 435, search	
			x	x			0500/0600	1/3	E06	01A	14565/16125 460	13985/15830 328
	x						0530		M01A	14	9441 751	9441 751
		x					0530		M01A	14	9129 498	9129 498
			x				0540		M01A	14	7692 536	7692 536
x	x	x	x	x	x	x	0600		V13	0	11430	11430
x				x			0600		E11	03	13873 18#, check	13873 18#
x		x		x		x	0555		HM01	18	10345	10345
	x		x		x		0555		HM01	18	14375	14375
	x						0600/0610		S06S	01A	15945/16945 438	15945/16945 438
			x		x	x	0600/0620/0640		E07	01B	9064/10264/11464 024	9064/10264/11464 024
	x			x			0620		M01A	14	10233 354/458	10233 354/458
		x					0620		M01A	14	9421 135	9421 135
	x			x			0630		M01A	14	9447 143/792	9447 143/792
			x				0630		M01A	14	8111 902	8111 902
x							0630/0640		S06S	01A	16320/14875 524	16320/14875 524
x		x					0640		E11	03	15800 94#	15800 94#
	x		x				0645		E11	03	13424 51#	13424 51#
x		x		x		x	0655		HM01	18	9330	9330
	x		x		x		0655		HM01	18	13435	13435

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
	x			x			0700		E11	03	6849 57#	6849 57#
x	x	x	x	x	x	x	0700		V13	0	15388	15388
						x	0700		M01	01B	6780 025	6780 025
	x						0700/0710(15)		S06S	01A	5430/ 6780 374	5430/ 6780 374
	x			x			0700/0720/0740		E07	01B	search	16331/18731/19331 373
	x		x				0700/0720/0740		M12	01B	search	search
						x	0700/0720/0740		V07	01B		x13563/12163/ 10263 512, search
x		x					0700/0720/0740		XPA2p	01B	11541/13441/14941	10324/11524/13524
					x	x	0710		E11	03	6480 49#	6480 49#
	x			x			0710		M01A	14	10651 297	10651 297
		x					0710		M01A	14	9175 146	9175 146
	x		x				0710/0730/0750		XPA	01B	search	search
	x			x			0715		E11	03	10429 63#	10429 63#
	x						0720		M01A	14	9151 728	9151 728
	x						0730/0740		S06S	01A	7245/12080 7365/11655 427	7245/12080 7365/11655 427
		x					0730/0740		S06S	01A	12110/14977 745	12110/14977 745
x							0745		E11	03	9610 26#	9610 26#
		x		x			0745		E11	03	15720 34#	15720 34#
x		x		x		x	0755		HM01	18	9065	9065
	x		x		x		0755		HM01	18	11365	11365
x	x	x	x	x	x	x	0800		V13	0	15388	15388
x							0800	1/3	G06	01A	7320 329	7320 329
			x				0800/0810		E17Z	01A	16780/12850/ 674	16780/12850/ 674
	x						0800/0810		S06S	01A	14373/12935 352, check cf. Fri 0830	14373/12935 352
					x		0800/0810	1	S06S	01A	12460/10250 254	12460/10250 254
					x		0800/0820/0840		E07A	01B	12177/13477/14877 148	13373/14373/14873 338
x		x					0800/0820/0840		XPA2p	01B		
					x		0800/0900		M14	01A	4730/ 4650 523	4730/ 4650 523
					x	x	0805		E11	03	9079 31#, check	9079 31#
	x		x				0810/0830/0850		XPA	01B	search	search

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
x			x				0820		E11	03	5082 43#, check	5082 43#
	x	x					0820		E11	03	13#, search	13#
		x					0820/0830		S06S	01A	9485/11085 471	9485/11085 471
x							0830/0840		S06S	01A	8221/ 9353 371	8221/ 9353 371
		x					0830/0840		S06S	01A	11565/12560 464	11565/12560 464
				x			0830/0840		S06S	01A	x14373/12935 352, search cf. Fri 0830	x14373/12935 352, search
			x	x			0830/0930		S06	01A	17475/14736 842	16022/13925 842
	x		x				0845		E11	03	12202 15#	12202 15#
x		x		x		x	0855		HM01	18	9240	9240
	x		x		x		0855		HM01	18	11462	11462
x		x					0900		E11	03	7439 53#	7439 53#
x							0900/0910		S06S	01A	16380/14835 872	16380/14835 872
				x			0900/0910		S06S	01A	6844/ 7161 624	6844/ 7161 624
x		x					0910/0930/0950		XPA2	01B	search	search
			x		x		0910/0930/0950		XPA2	01B	search	13527/12227/11427
x	x	x	x	x	x	x	0930		M14	01A	16347/14878 617, only 10., (11.), 25., (26)	16347/14878 617, only 10., (11.), 25., (26)
		x	x				0930		E11	03	6304 27#	6304 27#
			x				0930/0940		S06S	01A	9255/10325 314	9255/10325 314
				x			0930/0940		S06S	01A	10290/ 9655 516	10290/ 9655 516
x		x		x		x	0955		HM01	18	9155	9155
	x		x		x		0955		HM01	18	12180	12180
	x			x			1000		E11	03	12397 30#	12397 30#
	x						1000/1010		S06S	01A	4820/ 5660 893	4820/ 5660 893
		x					1000/1010		S06S	01A	14580/16020 729	14580/16020 729
x			x				1015		S11A	03	10210 47#	10210 47#
	x			x			1020		S11A	03	6977 42#	6977 42#
x		x					1045		E11	03	8545 69#	8545 69#
		x		x			1100		S11A	03	4870 37#, check	4870 37#
	x						1100/1110		S06S	01A	6810/ 7560 754	6810/ 7560 754

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
	x			x			1100/1120/1140		E07	01B	19659/17459/16159 641	18637/17437/15837 648
x	x	x	x	x	x	x	1200		V13	0	9725	9725
		x					1200/1300	1/2	G06	01A	x6972, 7422 145, search	x6972, 7422 145
x							1200/1210		S06S	01A	10230/12165 831	10230/12165 831
			x				1200/1210		S06S	01A	13145/14535 425	13145/14535 425
	x	x					1205		E11	03	6304 46#, check	6304 46#
x				x			1210/1230/1250		M12	01B	search	search
x				x			1225		E11	03	13537 52#	13537 52#
x	x	x	x	x	x	x	1300		V13	0	13974	9725
			x				1300	1/3	G06	01A	5890 329	5890 329
			x		x		1300		E11	03	11581 58#, check	11581 58#
	x				x		1345		E11	03	15825 91#	15825 91#
x	x	x	x	x	x	x	1400		M08A	18	8096	8096
x		x					1400/1420/1440		M12	01B	17451/15951/14451 494	16117/14717/13417 174
			x		x		1410/1430/1450		E07	01B	search	search
	x	x	x				1500		S06	01A		13944 387
	x	x	x				1500		S06	01A		11496 387
					x		1500		M01	14	6435 025	6435 025
	x						1500/1510		S06S	01A	6766/ 7744 537	6766/ 7744 537
x					x		1600/1620/1640		XPA2	01B	search	search
				x			1510/1530/1550		E07A	01B	12182/11082/10182 101	12182/11082/10182 101
			x				1530		E11	03	10356 26#	10356 26#
		x			x		1540		S11A	03	11092 56#	11092 56#
x	x	x	x	x	x	x	1555		HM01	18	11435	11435
	x	x					1600	1/3	M14	01A	6948 (tue) 7323 (wed) 725 check	6948 (tue) 7323 (wed) 725
	x		x				1600/1620/1640		XPA2	01B	search	search
	x					x	1605		E11	03	4783 23#	4783 23#
				x			1610/1630/1650		E07A	01B	11435	11435
		x				x	1625		E11	03	15795 97#	15795 97#
	x		x				1645		E11	03	14575 33#	14575 33#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
				x		x	1650		E11	03	14940 92#	14940 92#
x							1700/1800	1/2	G06	01A	x5287, 4945 145, search	x5287, 4945 145
x	x	x	x	x	x	x	1655		HM01	18	11530	11530
		x				x	1700/1720/1740		E07	01B	x14763/13363/ 12163 731, search	x14842/13442/ 12142 841, search
				x			1700/1800	1/3	M14	01A	7485/ 6891 382	7485/ 6891 382
		x			x		1705		E11	03	14865 39#, check	14865 39#
		x			x		1730		E11	03	7984 40#	7984 40#
			x				1730		E11	03	8088 41#	8088 41#
x						x	1745		E11	03	14410 24#	14410 24#
	x		x				1800		M01	14	5280 025	5280 025
x	x	x	x	x	x	x	1755		HM01	18	11635	11635
x							1810		M01B	14	5125, 5735 364	5125, 5735 364
	x						1820	2/4	M14	01A	6856 163	6856 163
			x				1830	2/4	G06	01A	6887 842	6887 842
			x				1832		M01B	14	5095, 5760 815	5095, 5760 815
	x			x			1840/1850/1900	1	F01	01A	14363/12189/10346	14621/12206/10465
		x			x		1850		S11A	03	12457 28#	12457 28#
x			x				1900		E11	03	7600 64#	7600 64#
x		x					1900/1920/1940		E07	01B	17472/15872/13372 483	16328/14828/13428 384
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
x			x				1900/1920/1940		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
				x	x		1900/1920/1940		XPA2r	01B	17462/16114/14828	
				x			1900/2000	1/3	M14	01A	7605/ 6876 735	7605/ 6876 735
				x			1900/2000	1/3	S06	01A	x9492/ 7528 627, search	
				x			1902		M01B	14	5075, 5465 336	5075, 5465 336
				x		x	1910		E11	03	9610 61#	9610 61#
x							1915		M01B	14	5150, 5475 858	5150, 5475 858
		x					1920	2/4	M14	01A	5938 417	5938 417
	x		x				1925		E11	03	11581 55#	11581 55#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
				x			1930	2/4	G06	01A	5935 218	5935 218
					x	x	1930		E11	03	9130 36#, check	9130 36#
			x				1942 (1940 ?)		M01B	14	5065, 5805 936	5065, 5805 936
		x		x			1950/2010/2030		M12	01B	16194/14794/13394 173	16217/14817/13417 284
	x		x				2000		M01	14	4905 025	4905 025
x	x	x	x	x	x	x	2000		M08A/ V02A	18	7554	7554
x							2000/2020/2040		M12	01B	10343/ 9264/ 8116 463	10343/ 9264/ 8116 463
		x					2000/2020/2040		E07A	01A	12166/10766/ 9266 172	12166/10766/ 9266 172
	x					x	2000/2020/2040		XPA2m	01B	14538/13538/12138	
				x			2000/2100	1/3	S06	01A		x9492/ 7528 627, search
				x			2010		M01B	14	4895, 5340 467	4895, 5340 467
			x				2030	1/3	E06	01A	5940 724	5940 724

M01 FREQUENCY LIST

Frequencies may vary by a few kHz

JAN FEB NOV DEC

M01/1

197

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5320
TUE / THU	2000	4490
SAT	1500	5810
SUN	0700	5465

MAR APRIL SEPT OCT

M01/2

463

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5475
TUE / THU	2000	5020
SAT	1500	6260
SUN	0700	6510

MAY JUNE JULY AUG

M01/3

025

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5280
TUE / THU	2000	4905
SAT	1500	6435
SUN	0700	6780

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Mar kHz, ID, ...	Apr kHz, ID, ...	May kHz, ID, ...	Jun kHz, ID, ...	Remarks
		x	x				0315		E11	03	7850 25#	5779 25#	8565 25#	8565 25#	since 01/14, last log 02/19
x							0450		E11	03	5371 41#	5371 41#	7469 41#	7469 41#	since 02/10, last log 01/19 2nd transmission Thu 1730z
	x		x				0455		S11A	03	5358 > 5371 32#	5371 32#	5149 32#, check	5149 32#	since 09/14, last log 03/19
x			x				0600		E11	03	12089 18#	12089 18#	13873 18#, check	13873 18#	since 07/15, last log 03/19
x	x						0640		E11	03	12153 94#	12153 94#	15800 94#	15800 94#	since 07/17, last log 04/19
	x	x					0645		E11	03	10800 51#	10800 51#	13424 51#	13424 51#	since 07/09, last log 04/19
	x			x			0700		E11	03	8180 57#	8180 57#	6849 57#	6849 57#	since 01/12, last log 04/19
					x	x	0710		E11	03	8102 49#	8102 49#	6480 49#	6480 49#	since 07/15, last log 04/19
	x			x			0715		E11	03	9963 63#	9963 63#	10429 63#	10429 63#	since 02/11, last log 04/19
x							0745		E11	03	10213 26#	10213 26#	9610 26#	9610 26#	since 03/14, last log 04/19 2nd transmission Thu 1530z
		x	x				0745		E11	03	17410 34#	17410 34#	15720 34#	15720 34#	since 06/17, last log 02/19
					x	x	0805		E11	03	5371 31#	5371 31#	9079 31#, check	9079 31#	since 07/14, last log 04/19
x			x				0820		E11	03	5941 43#	5941 43#	5082 43#, check	5082 43#	since 10/09, last log 04/19
	x	x					0820		E11	03	19184 13#	19184 13#	13#, search	13#	since 12/18, last log 04/19
	x		x				0845		E11	03	10246 15#	10246 15#	12202 15#	12202 15#	since 07/17, last log 04/19
x		x					0900		E11	03	8180 53#	8180 53#	7439 53#	7439 53#	since 10/05, last log 04/19
		x	x				0930		E11	03	6807 > 6940 27#	6940 27#	6304 27#	6304 27#	since 02/14, last log 04/19
	x			x			1000		E11	03	7840 30#	7840 30#	12397 30#	12397 30#	since 11/16, last log 04/19
x			x				1015		S11A	03	11493 47#	11493 47#	10210 47#	10210 47#	since 04/10, last log 04/19 yearly changing frequencies + id
	x			x			1020		S11A	03	7469 42#	7469 42#	6977 42#	6977 42#	since 02/10, last log 04/19
x		x					1045		E11	03	7317 69#	7317 69#	8545 69#	8545 69#	since 03/18, last log 04/19
		x		x			1100		S11A	03	6433 37#	6433 37#	4870 37#, check	4870 37#	since 02/14, last log 04/19 until 02/19 at 1955z
	x	x					1205		E11	03	6923 46#	6923 46#	6304 46#, check	6304 46#	since 03/10, last log 04/19 2nd transmission Mon 0450z
x				x			1225		E11	03	20286 52#	20286 52#	13537 52#	13537 52#	since 05/15, last log 04/18
			x		x		1300		E11	03	13873 58#	13873 58#	11581 58#, check	11581 58#	since 02/16, last log 04/19
	x				x		1345		E11	03	13046 91#	13046 91#	15825 91#	15825 91#	since 10/15, last log 04/19
			x				1530		E11	03	10330 26#	10330 26#	10356 26#	10356 26#	since 06/14, last log 04/19 2nd transmission Mon 0745z
		x			x		1540		S11A	03	10800 56#	10800 56#	11092 56#	11092 56#	since 03/16, last log 04/19
	x				x		1605		E11	03	6397 23#	6397 23#	4783 23#	4783 23#	since 11/15, last log 04/19
		x			x		1625		E11	03	10448 97#	10448 97#	15795 97#	15795 97#	since 02/15, last log 04/19
	x		x				1645		E11	03	10800 33#	10800 33#	14575 33#	14575 33#	since 06/17, last log 04/19
				x		x	1650		E11	03	13873 92#	13873 92#	14940 92#	14940 92#	since 05/16, last log 04/19
		x			x		1705		E11	03	4181 39#	4181 39#	14865 39#, check	14865 39#	since 02/14, last log 04/19 until 02/19 at 1955z
		x			x		1730		E11	03	5844 40#	5844 40#	7984 40#	7984 40#	since 06/16, last log 04/19
			x				1730		E11	03	7864 41#	7864 41#	8088 41#	8088 41#	since 03/10, last log 04/19 2nd transmission Mon 0450z
x					x		1745		E11	03	13470 24#	13470 24#	14410 24#	14410 24#	since 04/18, last log 04/19
		x			x		1850		S11A	03	10213 28#	10213 28#	12457 28#	12457 28#	since 06/17, last log 04/19
x			x				1900		E11	03	7317 64#	7317 64#	7600 64#	7600 64#	since 05/16, last log 04/19
				x		x	1910		E11	03	8530 61#	8530 61#	9610 61#	9610 61#	since 04/17, last log 04/19
	x		x				1925		E11	03	10620 55#	10620 55#	7749? 11581 55#	11581 55#	since 07/15, last log 04/19
					x	x	1930		E11	03	4505 36#	4505 36#	9130 36#, check	9130 36#	since 03/14, last log 04/19 2nd transmission Thu 1530z

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Mar kHz, ID, ...	Apr kHz, ID, ...	May kHz, ID, ...	Jun kHz, ID, ...	Remarks
x							0800	1/3	G06	01A	6810 329	6810 329	7320 329	7320 329	since 07/10, last log 04/19 repeat at Thu 1300Z
	x						1200/1300	1/2	G06	01A	5234, 5412 145	5234, 5412 145	x6972, 7422 145, search	x6972, 7422 145	since 10/14, last log 04/19 yearly changing frequencies + id
		x					1300	1/3	G06	01A	4598 329	4598 329	5890 329	5890 329	since 09/11, last log 04/19 repeat from Mon 0800Z
x							1700/1800	1/2	G06	01A	4792, 4877 145	4792, 4877 145	x5287, 4945 145, search	x5287, 4945 145	since 04/10, last log 04/19 yearly changing frequencies + id
		x					1830	2/4	G06	01A	5934 579	5934 579	6887 842	6887 842	since 05/01, last log 04/19 repeat at Fri 1930Z
			x				1930	2/4	G06	01A	5442 947	5442 947	5935 218	5935 218	since 04/01, last log 04/19 repeat from Thu 1830Z

XPA and XPA2[Sched m, p, r] Russian Intelligence and/or Diplomatic Multitone Systems
[Radiogramma] Transmission Schedules.

Zulu >	XPA Tuesday/Thursday H+10 H+30 H+50 0710 / 0810z			XPA2 Sched m Various Sun/Tue H 00 H+20 H+40 1300,1500,1800,2000,2100			XPA2 Sched p Monday/Wednesday H 00 H+20 H+40 0700 / 0800z			XPA2 Sched r Various Fri/Sat H 00 H+20 H+40 1400, 1900, 2100		
Month v												
Jan	12157	13462	14374	16138	14438	13438	11493	13393	14793	16167	14663	13923
Feb	13397	14413	15972	16338	14538	13538	12137	13937	14737	18667	17419	16212
Mar	12132	13453	14576	16138	14438	13438	12192	13892	14892	18667	17419	16212
Apr	10428	11431	13441	14538	13538	12138	11167	12167	13567	17462	16114	14824
May				14538	13538	12138	11541	13441	14941	17462	16114	14824
June				14738	13438	12138	10324	11524	13524	16167	14663	13923
July				14538	13538	12138	11167	12167	13567	15967	13884	12217
Aug				14738	13438	12138	10278	12178	13478	16167	14663	13923
Sept				14538	13538	12138	10324	11524	13524	16167	14663	13923
Oct	12167	13437	14972	16338	14538	13538	12192	13892	14892	17462	16114	14828
Nov	13978	14859	15871	18328	16238	14438	13427	14627	15827	17462	16114	14828
Dec	11531	12137	13932	14538	13538	12138	10278	12178	13478	15967	13884	12217

Notes:

XPA Under construction due to change/end of old c schedule. Usually as strong as previous schedule.. [ID does not match freq 100kHz]

XPA2 m Repetitive frequency triplets, appears robust, generally strong into UK

XPA2 r Schedule appears robust; generally very strong signals to UK

XPA2 p Schedule revised from 6 day to two day [Oct2017]. Sigs to UK variable.

Null Message: Long tones used in place of repeat character [15Hz below 0] whilst ending of 10140 is now variable. [First seen 11/12/2017 XPA2 t]

Updated: 03012019

SPECIAL MATTERS

Thanks to all our contributors:

Ary, Edd, BR, CC, CQ, Danix, DanAr, E, F5, HH, HJH, JkC, Jochen, , Malc, MaleAnon, PoSW, QSP55, PLdn, RNGB, Spectre, Apologies to anyone missed.



MESSAGES:

E: **Tnx your input. Noise bad here too. No surprise Re Michael Bettaney ... a good bottle man indeed. Best P**

RELEVANT WEBSITES

ENIGMA 2000 Website:

<http://www.enigma2000.org.uk>

Frequency Details can be downloaded from:

<http://www.cvni.net/radio/>

More Info on 'oddities' can be found on Brian of Sussex' excellent web pages:

<http://www.brogers.dsl.pipex.com/page2.html>

Time zone information:

<http://www.timeanddate.com/library/abbreviations/timezones/>

Encyclopedia of Espionage, Intelligence, and Security

<http://www.espionageinfo.com/>

EyeSpyMag!

<http://www.eyespymag.com>

2019

Source: Vertex42.com

January						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

March						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

April						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

May						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June						
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

July						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

August						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

September						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

November						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

December						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

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